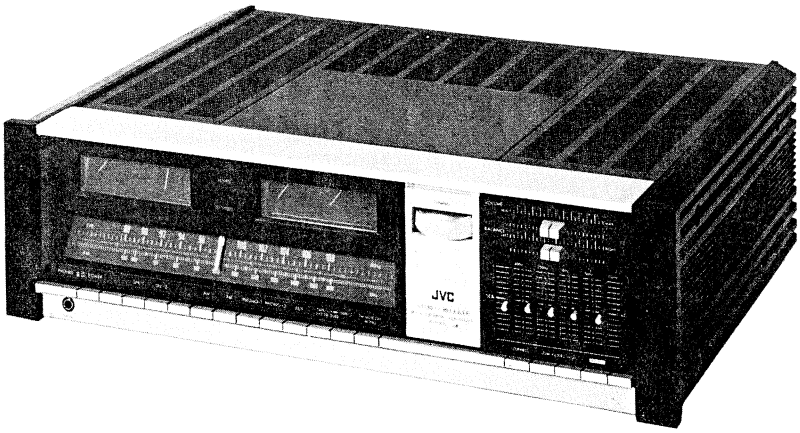
JVC

SERVICE MANUAL

MODEL
JR-S400 MARK II
STEREO RECEIVER

SEA



No. 2398
JAN. 1977

Contents

Page

1. Specifications 2
2. Level Diagram 3
3. Removal of Top Cover, Bottom Plate and Front Panel 4
4. Main Parts Locations 6

5. Exploded View and Part Numbers

    5-(1) Front Panel 7
    5-(2) Rear Panel 8
6. Dial Stringing Procedure 9

7. FM/AM Tuner Alignment Procedures

    7-(1) FM Section 10
    7-(2) AM Section 12

8. Power Amplifier Adjustment Procedures

    8-(1) Center Voltage 13
    8-(2) Idling Current 13
    8-(3) Power Meter 14

9. Printed Circuit Board Ass'y Part Locations and Parts List

    9-(1) TPS-48 AC Block P.C. Board Ass'y 15
    9-(2) TPS-49C Fuse P.C. Board Ass'y 15
    9-(3) TPS-50B Meter Lamp P.C. Board Ass'y 16
    9-(4) TPS-68A Stabilizer P.C. Board Ass'y 16
    9-(5) TAP-258 Power Amp. P.C. Board Ass'y 17
    9-(6) TAP-259 Power Amp. P.C. Board Ass'y 19
    9-(7) TAP-260 Power Supply P.C. Board Ass'y 22
    9-(8) TAC-402D S.E.A. (Sound Effect Amp.) Control P.C. Board Ass'y 24
    9-(9) TAC-414 Selector P.C. Board Ass'y 26
    9-(10) TAC-446A S.E.A. (Sound Effect Amp.) Control P.C. Board Ass'y 29
    9-(11) TAC-448A Speaker P.C. Board Ass'y 31
    9-(12) TFM-910GUA2 FM/AM Tuner P.C. Board Ass'y 33
10. Packing Materials. 38
11. Accessories List 38
12. Transistor, I.C. and Diode Lead Identification 39
13. Parts List with Specified Numbers for Designated Areas 40
14. Schematic Diagram 41

1. Specifications

Dimensions : 6-11/16"(H) x 22-1/16"(W) x 17"(D) (16.9 cm x 56.0 cm x 43.1 cm)

Weight (Net) : 37.4 lbs. (17.0 kg)

Power Amplifier Section

RMS Power Both channels driven : 80 watts per channel, min. RMS at 8 ohms from 20 Hz to 20 kHz with no more than 0.08 % total harmonic distortion.

RMS Power Both channels driven at 1 kHz : 85 watts per channel at 8 ohms
110 watts per channel at 4 ohms

Total Harmonic Distortion : 0.08 % at rated output power.

Damping Factor : 50 at 8 ohms

Pre Amplifier Section

Input Sensitivity, Impedance and Signal to Noise Ratio (IHF short circuited A network) : Phono: 2.5 mV/50 kΩ & 75 dB
Aux: 220 mV/60 kΩ & 95 dB
Tape Mon.: 220 mV/60 kΩ & 95 dB

Recording Output Level : 180 mV (Pin)
30 mV/80 kΩ (DIN)

Frequency Response : 10 Hz to 30 kHz +0 dB, −1 dB

S.E.A. Center Frequency : 40 Hz, 250 Hz, 1 kHz, 5 kHz & 15 kHz

S.E.A. Control Range : ± 12 dB

Loudness Control Range (Volume Control at −30 dB position) : 10 dB at 50 Hz, 4 dB at 10 kHz

Low Filter : −10 dB at 50 Hz

High Filter : −10 dB at 10 kHz

FM Tuner Section

Usable Sensitivity : 9.8 dBf (1.7 μV)

Total Harmonic Distortion at 1 kHz and 100 % Modulation : 0.1 % (Mono) at 100 Hz or 1 kHz
0.25 % (Mono) at 6 kHz
0.25 % (Stereo) at 100 Hz or 1 kHz
0.4 % (Stereo) at 6 kHz

Signal to Noise Ratio (IHF weighted) : 80 dB (Mono), 70 dB (Stereo)

Selectivity : 80 dB IHF Alternated

Capture Ratio : 1.0 dB

Image Rejection : 90 dB

IF Rejection : 100 dB

Stereo Separation : 50 dB at 1 kHz, 35 dB at 50 Hz to 10 kHz

Muting Threshold : 19.2 dBf (5 μV)

AM Tuner Section

Usable Sensitivity : 30 μV, 300 μV/m

Image Rejection : 45 dB

Selectivity : 30 dB

IF Rejection : 50 dB

Signal to Noise Ratio : 55 dB

Power Supply Section

Power Source : AC 120 V, 50/60 Hz

Power Consumption : 220 W

2. Level Diagram

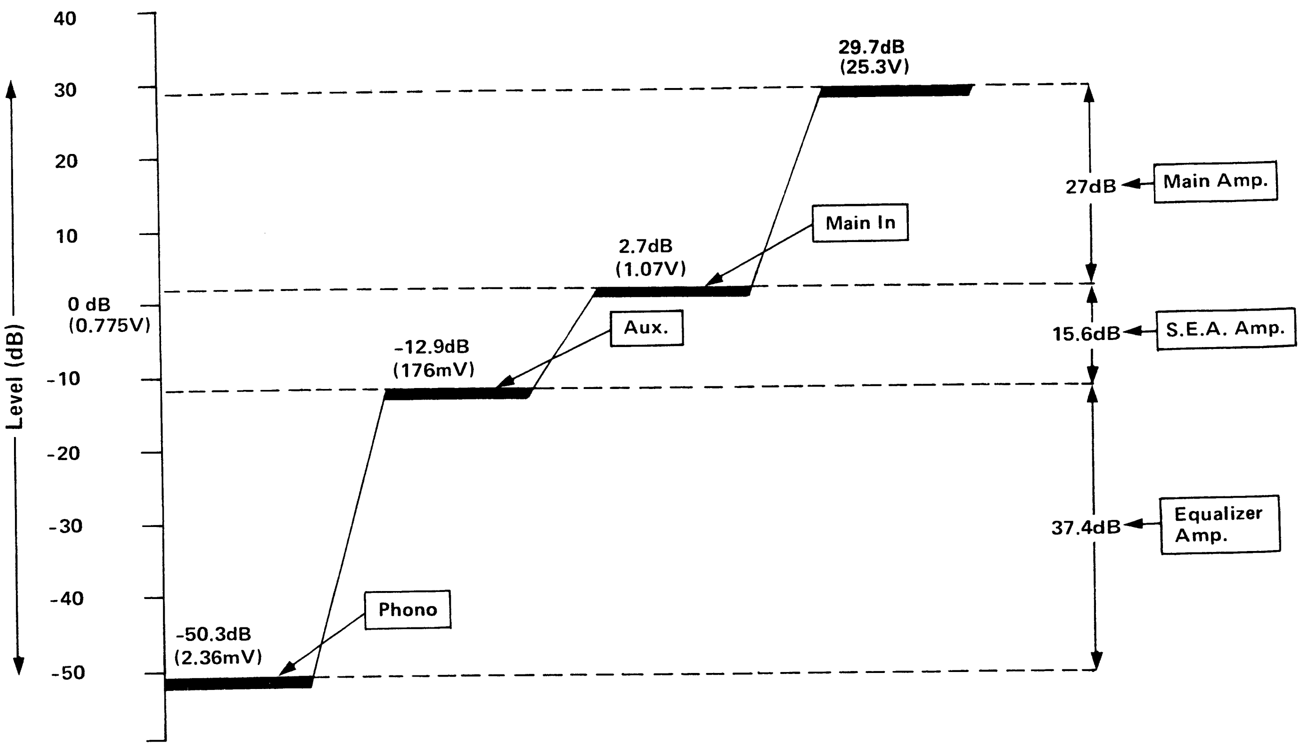


Fig. 1

3. Removal of Top Cover, Bottom Plate and Front Panel

Procedure and Part Numbers (Top Cover and Bottom Plate)

1. Remove 4 screws (Item No. 4) through the both sides of the cover and 3 screws (Item No. 2) from the back of the top cover. See Fig. 2.
2. Remove the top cover (Item No. 1).
3. Remove 4 screws (Item No. 8) from bottom plate (Item No. 7) and remove the bottom plate from the chassis. See Fig. 4.

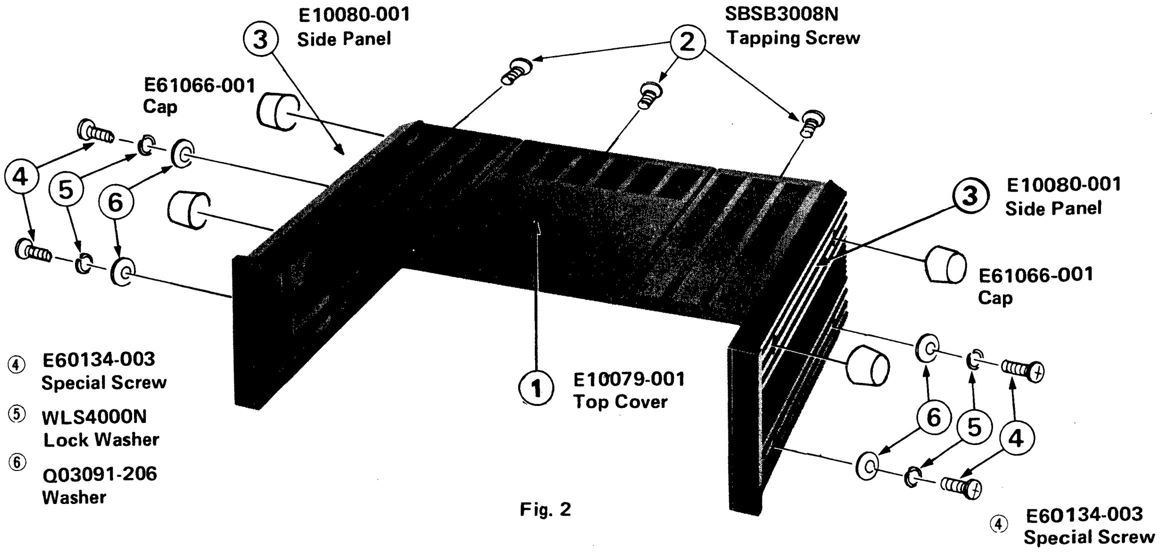

③ E10080-001 Side Panel
② SBSB3008N Tapping Screw
E61066-001 Cap
④
⑤
⑥
③ E10080-001 Side Panel
E61066-001 Cap
④ E60134-003 Special Screw
⑤ WLS4000N Lock Washer
⑥ Q03091-206 Washer
① E10079-001 Top Cover
⑥ ⑤ ④
④ E60134-003 Special Screw
⑤ WLS4000N Lock Washer
⑥ Q03091-206 Washer

Fig. 2

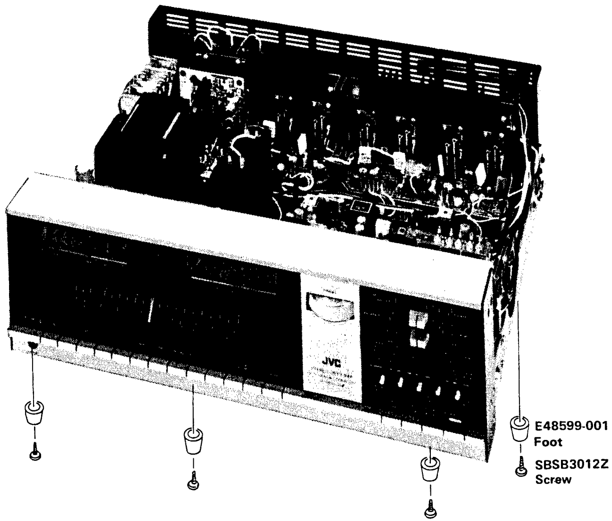

E48599-001 Foot
SBSB3012Z Screw

Fig. 3

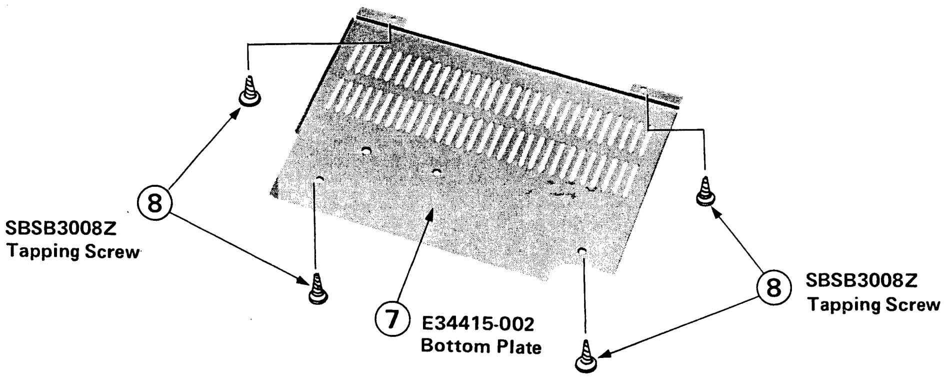

⑧ SBSB3008Z Tapping Screw
⑦ E34415-002 Bottom Plate
⑧ SBSB3008Z Tapping Screw

Fig. 4

Procedure and Part Numbers (Front Panel)

1. Remove the top cover, item no. ①. Refer to the removal of top cover on page 4.
2. Remove the dial pointer carefully according to the steps below:
   a. Slide the dial pointer to center position of the dial rail.
   b. Remove the dial cord from the dial pointer. Do not pull the dial cord strong.
   c. Remove the dial pointer from the dial rail carefully.

Note: Refer to Fig. 11 of the dial stringing procedure on page 9 when replace the dial pointer onto the dial rail.

3. Remove 2 screws, item no. ② located on the bottom of the front panel.
4. Remove 8 screws, item no. ③ located on the both sides of the front panel.
5. Remove the female plugs from TAC-414 Selector P.C. Board Ass'y.

Note: Refer to 9-(10) TAC-414 Selector P.C. Board Ass'y on page 30 when reconnecting the female plugs to proper positions.

In case of removing the window screen
Remove 4 phillips screws, item no. ④ located on the window screen. Refer to fig. 9 on page 7.
WARNING: Do not screw in excessively hard when replacing the window screen.

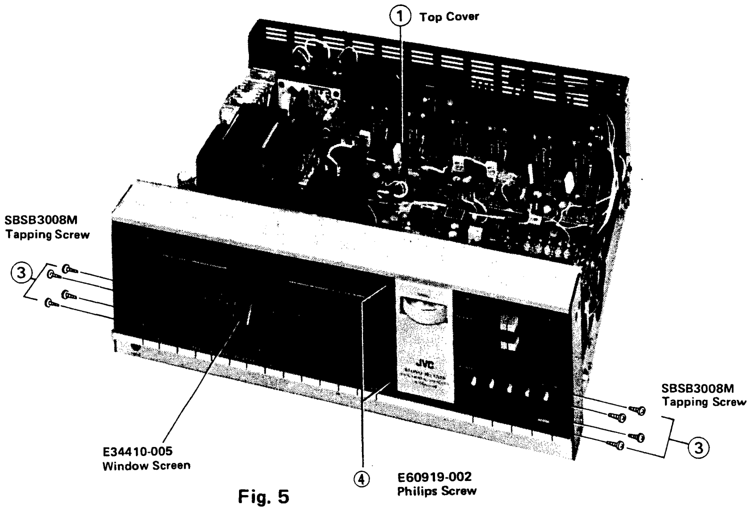
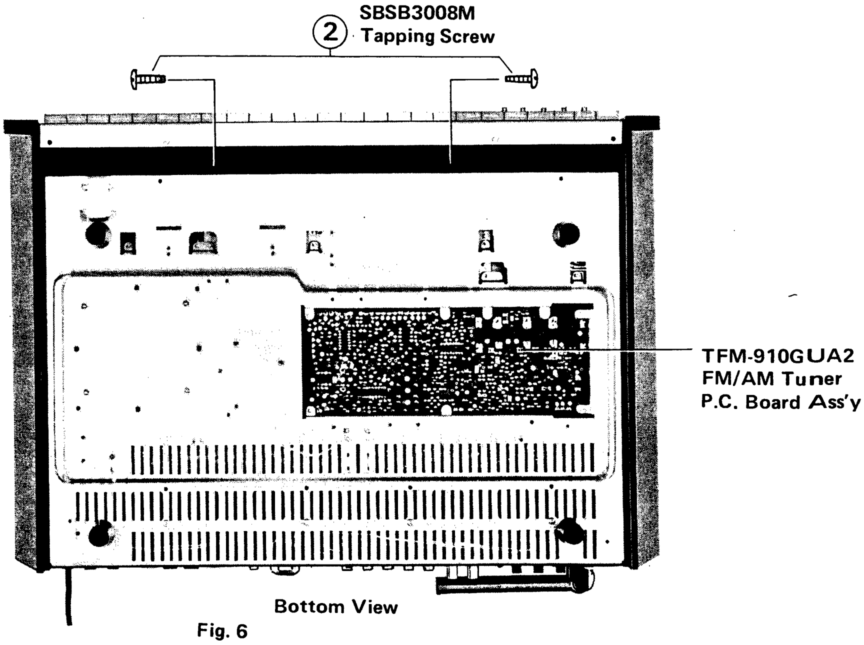

① Top Cover
SBSB3008M
Tapping Screw
③
SBSB3008M
Tapping Screw
③
E34410-005
Window Screen
④ E60919-002
Philips Screw

Fig. 5


② SBSB3008M
Tapping Screw
TFM-910GUA2
FM/AM Tuner
P.C. Board Ass'y

Bottom View

Fig. 6

4. Main Parts Locations

Top View

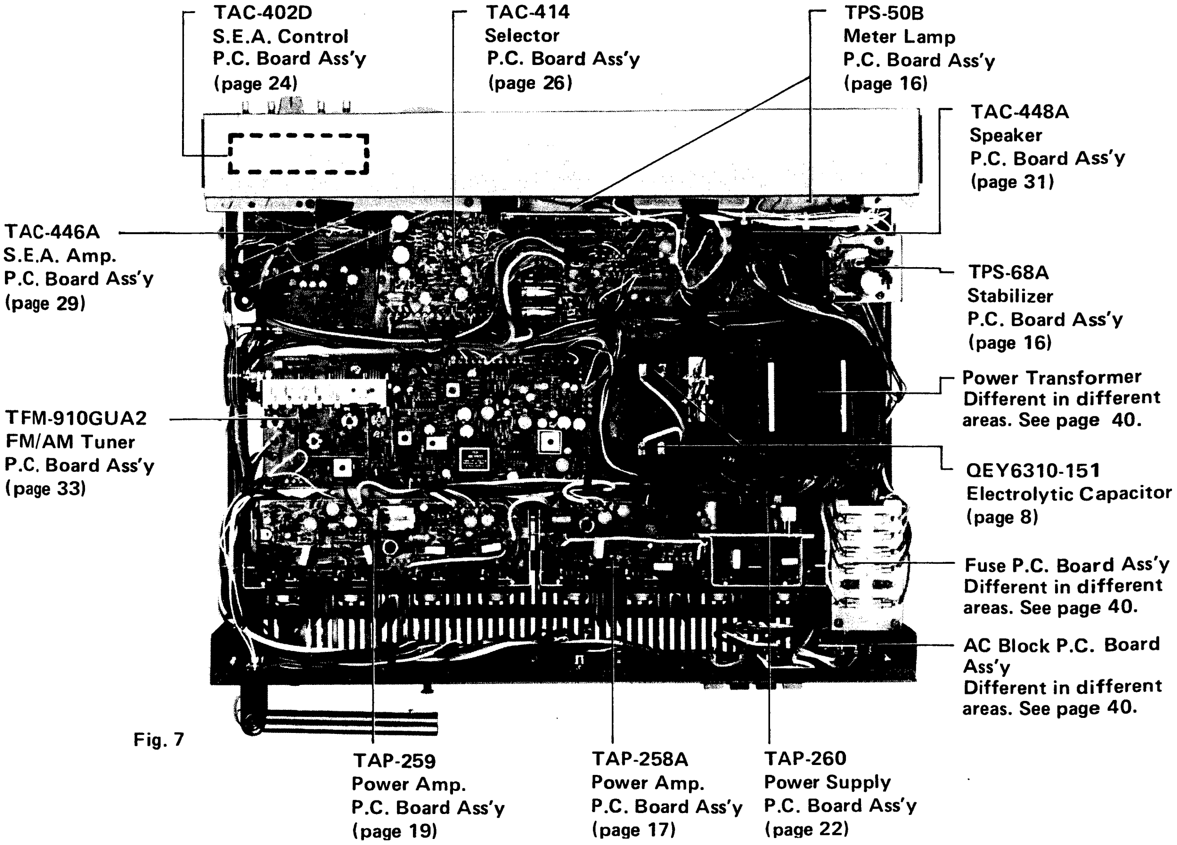

TAC-402D
S.E.A. Control
P.C. Board Ass'y
(page 24)
TAC-414
Selector
P.C. Board Ass'y
(page 26)
TPS-50B
Meter Lamp
P.C. Board Ass'y
(page 16)
TAC-448A
Speaker
P.C. Board Ass'y
(page 31)
TAC-446A
S.E.A. Amp.
P.C. Board Ass'y
(page 29)
TPS-68A
Stabilizer
P.C. Board Ass'y
(page 16)
Power Transformer
Different in different areas. See page 40.
TFM-910GUA2
FM/AM Tuner
P.C. Board Ass'y
(page 33)
QEY6310-151
Electrolytic Capacitor
(page 8)
Fuse P.C. Board Ass'y
Different in different areas. See page 40.
AC Block P.C. Board Ass'y
Different in different areas. See page 40.
TAP-259
Power Amp.
P.C. Board Ass'y
(page 19)
TAP-258A
Power Amp.
P.C. Board Ass'y
(page 17)
TAP-260
Power Supply
P.C. Board Ass'y
(page 22)

Fig. 7

Bottom View

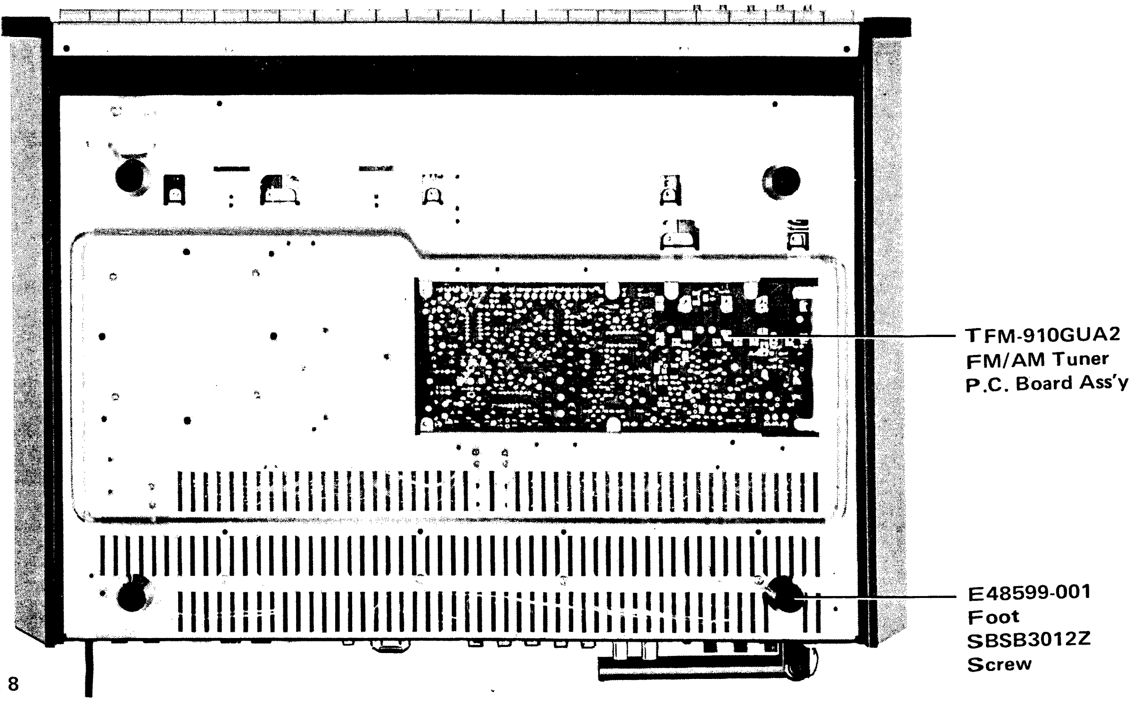

TFM-910GUA2
FM/AM Tuner
P.C. Board Ass'y
E48599-001
Foot
SBSB3012Z
Screw

Fig. 8

5. Exploded View and Part Numbers

5-(1) Front Panel

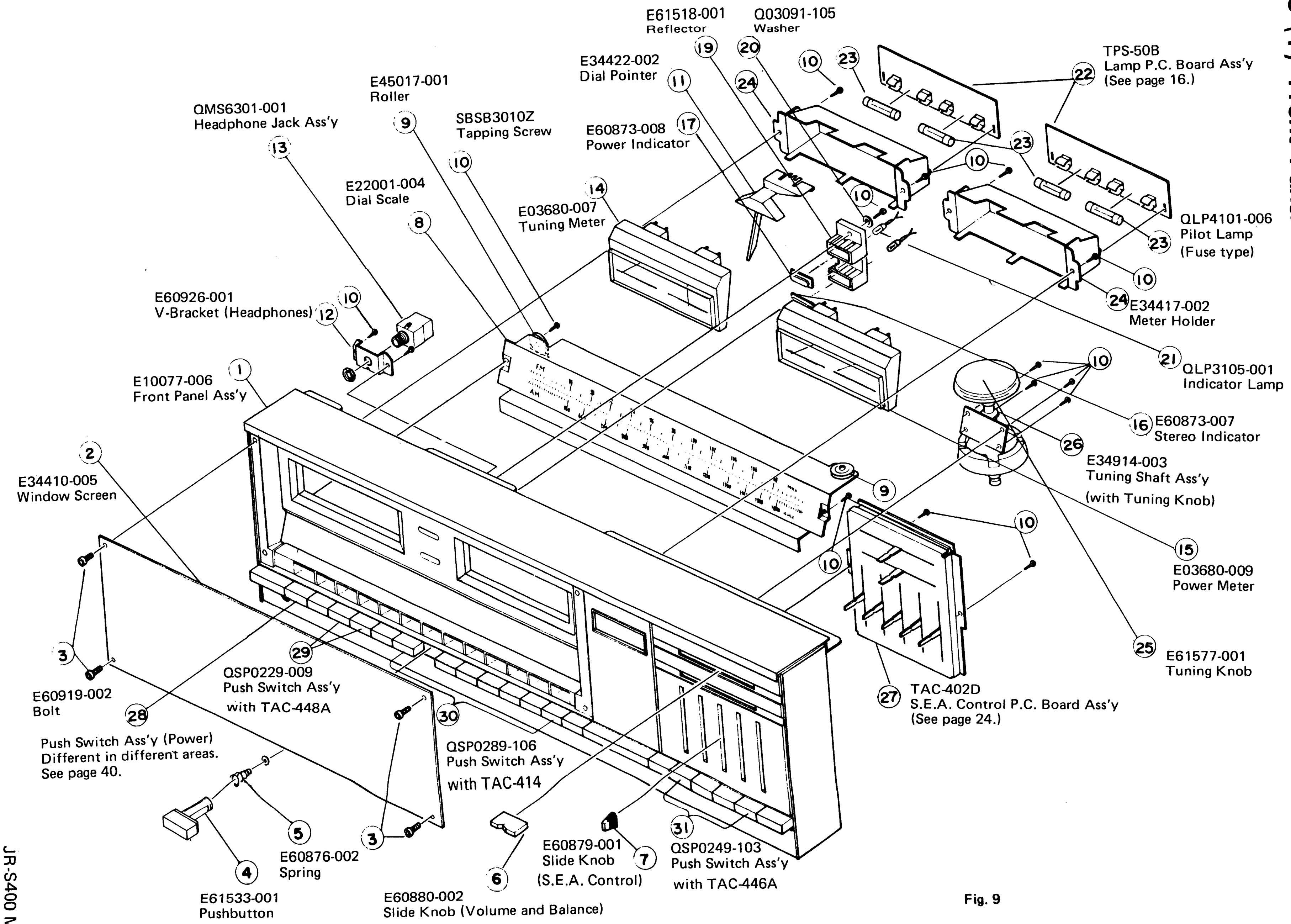
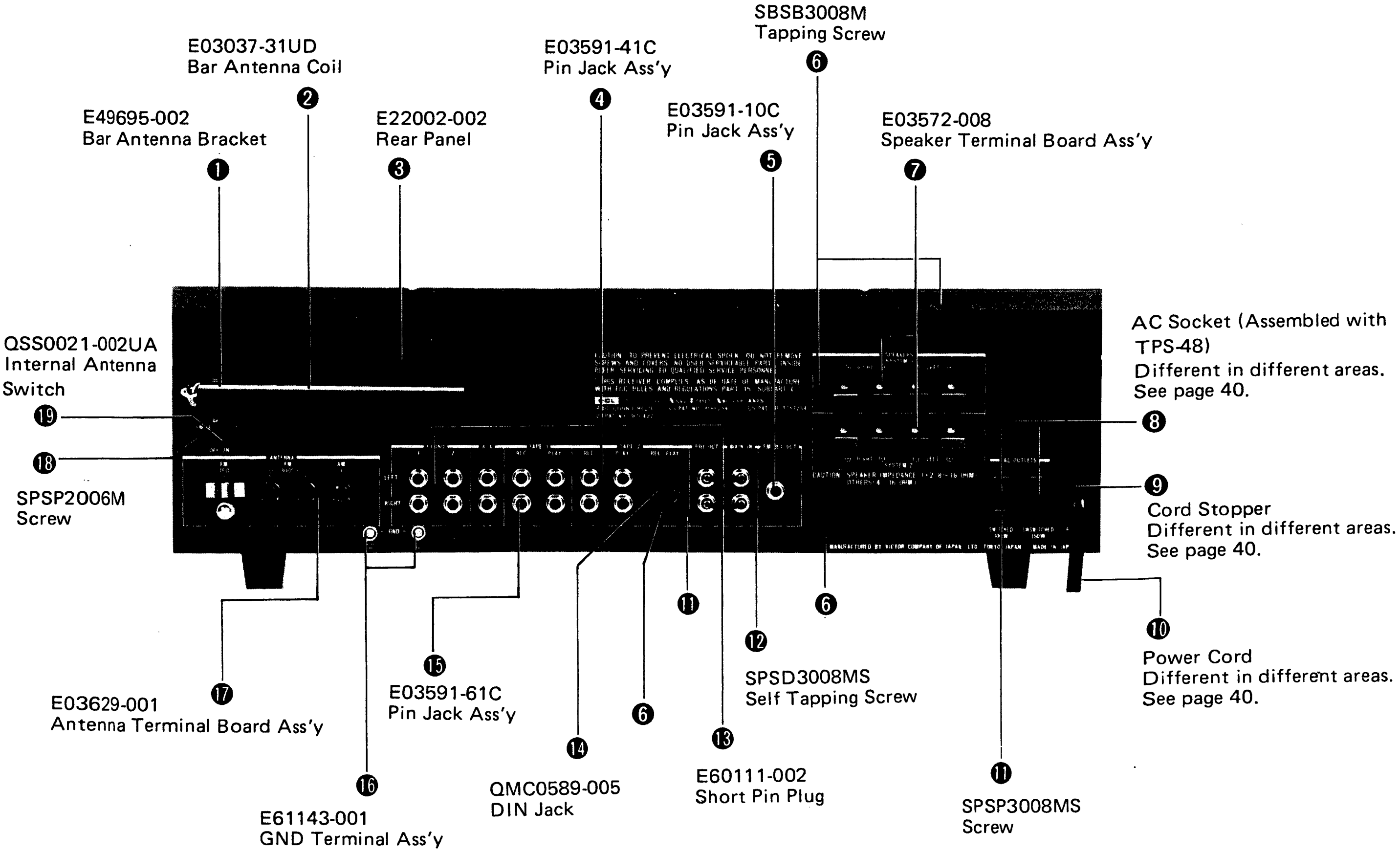

E61518-001
Reflector
Q03091-105
Washer
E34422-002
Dial Pointer
E45017-001
Roller
QMS6301-001
Headphone Jack Ass'y
SBSB3010Z
Tapping Screw
E60873-008
Power Indicator
TPS-50B
Lamp P.C. Board Ass'y
(See page 16.)
E22001-004
Dial Scale
E03680-007
Tuning Meter
QLP4101-006
Pilot Lamp
(Fuse type)
E60926-001
V-Bracket (Headphones)
E34417-002
Meter Holder
QLP3105-001
Indicator Lamp
E10077-006
Front Panel Ass'y
E60873-007
Stereo Indicator
E34914-003
Tuning Shaft Ass'y
(with Tuning Knob)
E34410-005
Window Screen
E03680-009
Power Meter
E61577-001
Tuning Knob
E60919-002
Bolt
QSP0229-009
Push Switch Ass'y
with TAC-448A
TAC-402D
S.E.A. Control P.C. Board Ass'y
(See page 24.)
Push Switch Ass'y (Power)
Different in different areas.
See page 40.
QSP0289-106
Push Switch Ass'y
with TAC-414
E60879-001
Slide Knob
(S.E.A. Control)
QSP0249-103
Push Switch Ass'y
with TAC-446A
E60876-002
Spring
E61533-001
Pushbutton
E60880-002
Slide Knob (Volume and Balance)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
19
20
21
22
23
24
25
26
27
28
29
30
31
FM
AM

Fig. 9

5-(2) Rear Panel



SBSB3008M
Tapping Screw
⑥
E03037-31UD
Bar Antenna Coil
②
E03591-41C
Pin Jack Ass'y
④
E49695-002
Bar Antenna Bracket
①
E22002-002
Rear Panel
③
E03591-10C
Pin Jack Ass'y
⑤
E03572-008
Speaker Terminal Board Ass'y
⑦
QSS0021-002UA
Internal Antenna
Switch
⑲
⑱
SPSP2006M
Screw
AC Socket (Assembled with
TPS-48)
Different in different areas.
See page 40.
⑧
⑨
Cord Stopper
Different in different areas.
See page 40.
⑪
⑥
⑫
⑩
Power Cord
Different in different areas.
See page 40.
⑮
SPSD3008MS
Self Tapping Screw
E03629-001
Antenna Terminal Board Ass'y
⑰
E03591-61C
Pin Jack Ass'y
⑥
⑬
⑭
E60111-002
Short Pin Plug
⑪
⑯
QMC0589-005
DIN Jack
SPSP3008MS
Screw
E61143-001
GND Terminal Ass'y

Fig. 10

Capacitors

Item No.	Part Number	Rating		Description
C005	QEY6310-151	10,000μF	63V	Electrolytic
C006	QEY6310-151	"	"	"
C016	QCF11HP-103	0.01μF	"	Ceramic
C017	QCF11HP-103	"	"	"
C015	QCF11HP-103	"	"	"

Resistors

Item No.	Part Number	Rating		Description
R011	QRD141J-394	390kΩ	1/4W	Carbon
R012	QRD141J-394	"	"	"
R013	QRD141J-124	120kΩ	"	"
R014	QRD141J-124	"	"	"

Others

Item No.	Part Number	Description
1	E42803-004	Passed Mark
2	E64216-002	Caution Tag

6. Dial Stringing Procedure

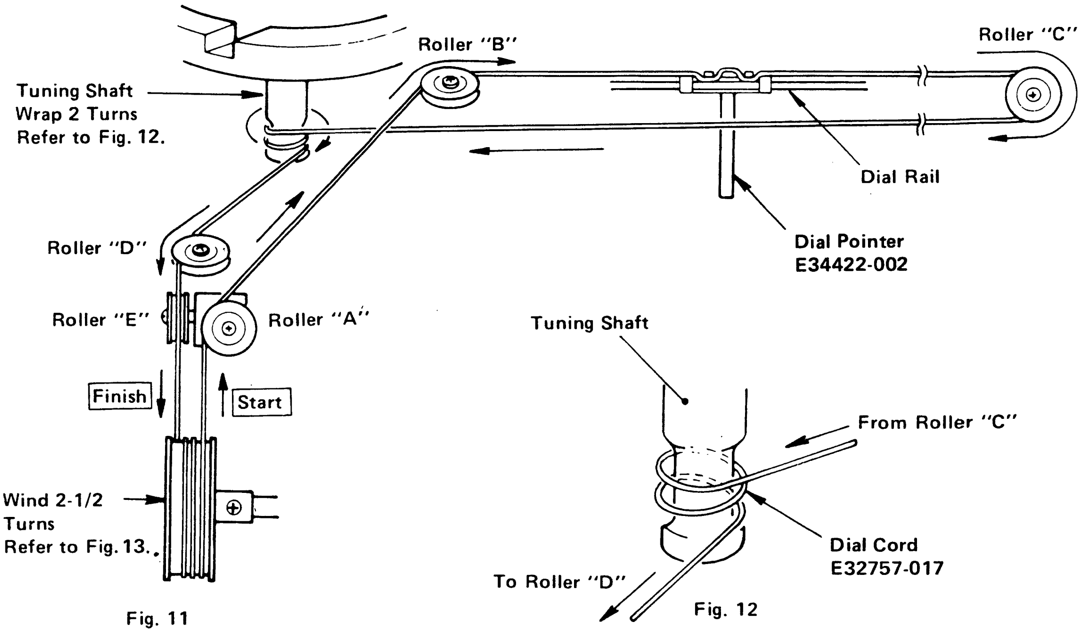

Tuning Shaft
Wrap 2 Turns
Refer to Fig. 12.
Roller "B"
Roller "C"
Dial Rail
Dial Pointer
E34422-002
Roller "D"
Roller "E"
Roller "A"
Finish
Start
Wind 2-1/2
Turns
Refer to Fig. 13.
Tuning Shaft
From Roller "C"
Dial Cord
E32757-017
To Roller "D"

Fig. 11

Fig. 12

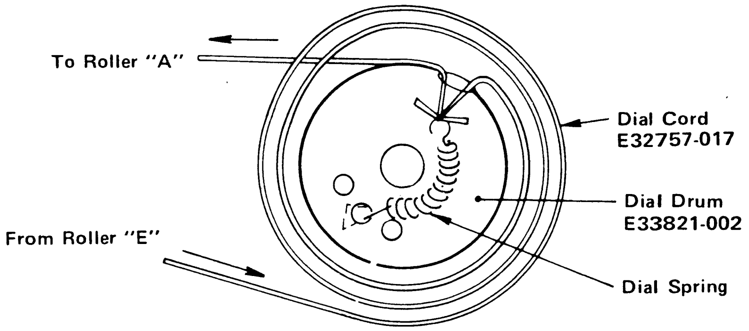
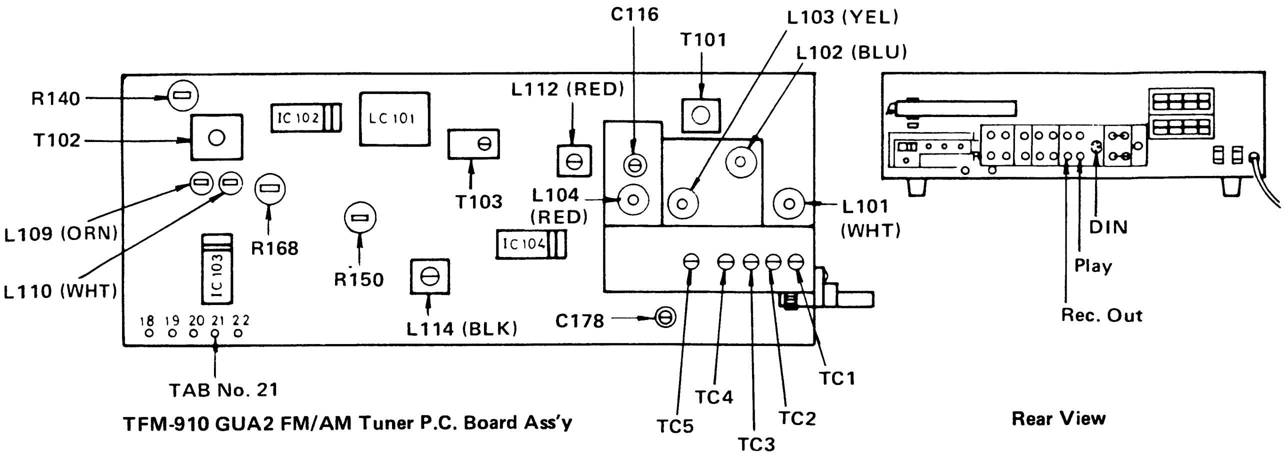

To Roller "A"
Dial Cord
E32757-017
Dial Drum
E33821-002
From Roller "E"
Dial Spring

Fig. 13

(1) Remove dial pointer and old cord.
(2) Tie end of new dial cord to one end of dial spring, connect other end of dial spring of bottom right eye inside dial drum. See fig. 13.
(3) Rotate the tuning capacitor dial drum to its maximum counterclockwise.
(4) Run the dial cord through the slot in the rim of the dial drum. See fig. 11.
(5) Guide dial cord around rollers "A" and "B", and over and around roller "C". Keep the dial cord taut during this procedure.
(6) Pull dial cord taut and wrap 2 turns around tuning shaft. See fig. 12.
(7) Guide dial cord around rollers "D" and "E".
(8) Guide dial cord under the dial drum and wind 2-1/2 turns clockwise. See fig. 13.
(9) Turn the tuning shaft to rotate the dial drum fully counterclockwise and fully clockwise to distribute the tensioning along the dial cord.
(10) Place the dial cord over and under the tabs on the rear of the dial pointer (see detail on fig. 11) and place the pointer on the top of the dial panel rail.
(11) Turn the tuning shaft clockwise, slide the dial pointer to zero (0) calibration marker on the logging scale while holding tuning shaft fully clockwise. Cement the dial pointer to dial cord to prevent slippage. Allow cement to dry thoroughly.
(12) Check dial calibration. Refer to FM/AM Alignment Procedure on page 10.
(13) Replace top cover.

7. FM/AM Tuner Alignment Procedures

Alignment Locations


C116
T101
L103 (YEL)
L102 (BLU)
R140
T102
IC102
LC101
L112 (RED)
T103
L104
(RED)
L109 (ORN)
L110 (WHT)
R168
R150
IC103
IC104
L101
(WHT)
18 19 20 21 22
L114 (BLK)
C178
TAB No. 21
TC1
TC4
TC5
TC2
TC3
DIN
Play
Rec. Out

TFM-910 GUA2 FM/AM Tuner P.C. Board Ass'y

Rear View

Fig. 14

7-(1) FM Section

Discriminator, Center Meter & Distortion

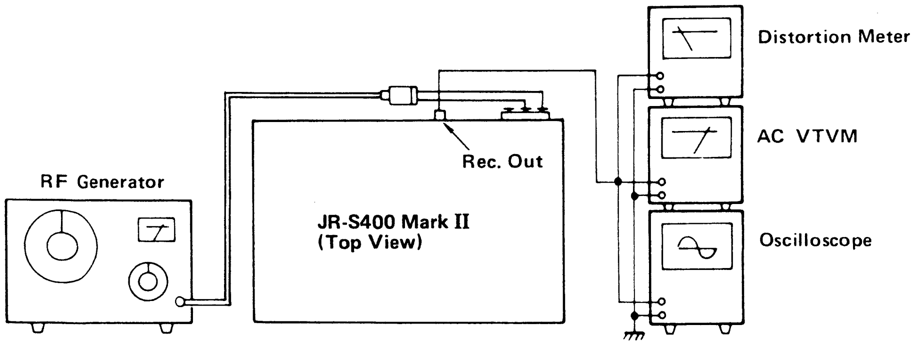
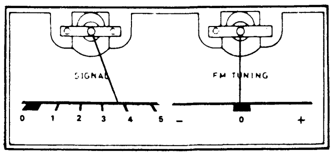

Distortion Meter
AC VTVM
Oscilloscope
Rec. Out
RF Generator
JR-S400 Mark II
(Top View)

Fig. 15


SIGNAL
FM TUNING
0 1 2 3 4 5
- 0 +

Signal & FM Tuning Meters

Signal meter should indicate maximum when center meter deflects in the range of "A".

Fig. 16

1. Connect an RF generator, 1kHz modulation and 75kHz deviation, to the antenna terminals on the rear panel through a dummy antenna.
2. Connect an oscilloscope, distortion meter and VTVM to the Rec. Out on the rear panel. See fig. 15.
3. Tune to a frequency where there is no broadcasting.
4. Adjust the bottom core of T102 so that the center meter indicates "0" (zero).
5. Set the RF generator to 98MHz.
6. Set the dial pointer to 98MHz.
7. Adjust the top core of T102 so that the distortion is minimized at a value less than 0.4%.

Tracking and Sensitivity

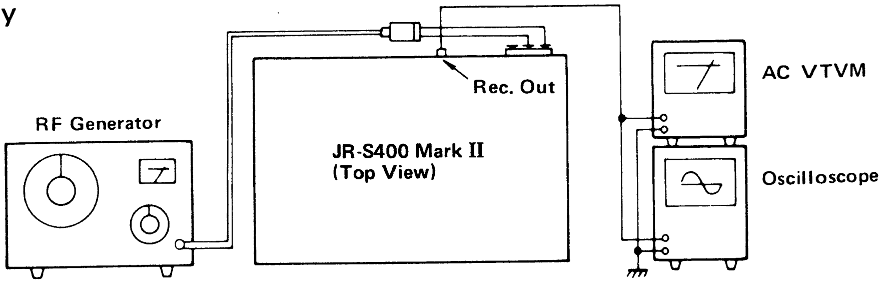


Fig. 17

Low Frequency

1. Connect an RF generator to the antenna terminals on the rear panel through a dummy antenna.
2. Set the RF generator to 88MHz, a modulation of 1kHz and a deviation of 75kHz, to provide an input of 2μV.
3. Connect a VTVM and an osciloscope to the Rec. Out on the rear panel.
4. Set the dial pointer to 88MHz.
5. Adjust five coils L104, L103, L102, L101 and T101 (top and bottom cores).

High Frequency

6. Set the RF generator to 108MHz, a modulation of 1kHz and a deviation of 75kHz to provide an input of 2μV.
7. Set the dial pointer to 108MHz.
8. Set the FM trimmers C114, TC5, TC3 and TC1 in the tuning gang to maximize the output.
9. Repeat these high and low frequency adjustments alternately until maximum sensitivity is obtained.

Note: After completion of this procedure, make sure that the center meter indicates proper position. Repeat steps 4 through 7 of the center meter adjustment, if it is not indicated properly. See fig. 16.

Multiplex & Separation

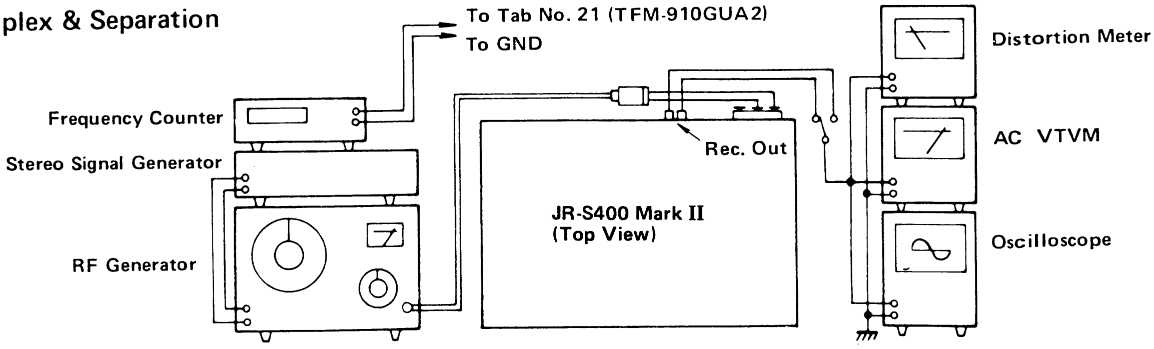


Fig. 18

Multiplex

1. Set the stereo signal generator as follows: Modulation frequency 1kHz, Deviation pilot 7.5kHz, Main and Sub. 67.5kHz. Connect its output to an RF generator.
2. Connect an RF generator to the antenna terminals through a dummy antenna.
3. Connect a VTVM, an oscilloscope and a distortion meter to the Rec. Out on the rear panel.
4. Set the RF generator to 98MHz and an output of 1mV.
5. Set the dial pointer to 98MHz.
6. Connect a frequency counter to Tab No. 21.
7. Switch the pilot signal of stereo modulator off.
8. Adjust R168 so that the frequency counter indicates 19kHz (±0.01kHz).

Stereo Separation

9. Switch the selector of the stereo modulator to left channel modulation.
10. Adjust VR401 located on TAC-414 (Selector P.C. Board Ass'y) so that the output of the right channel is minimized.
11. Switch the selector of the modulator to right channel modulation.
12. Adjust VR401 located on TAC-414 so that the output of the left channel is minimized.
13. Set VR401 to average, if the separations of right and left channels are different.

Note: Keep the muting pushbutton out during this adjustment procedure of stereo separation.

Muting Level

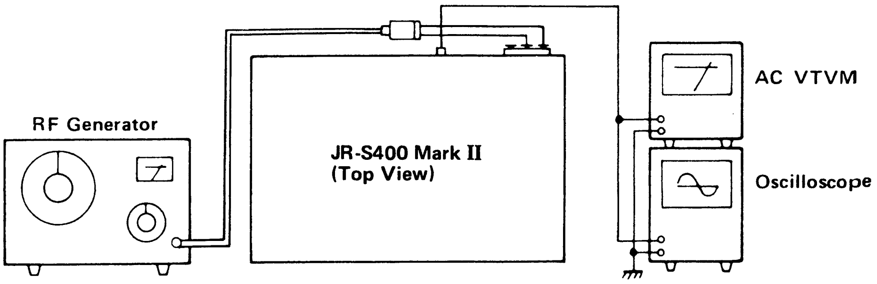


Fig. 19

1. Connect a VTVM and an oscilloscope to the Rec. Out on the rear panel.
2. Set the RF generator to 98MHz, a modulation of 1kHz and a deviation of 75kHz, to provide an input of 10μV.
3. Turn R150 clockwise and remember the point at which the muting ceases operating.
4. Turn R150 counterclockwise slightly so that the output level drops by 1dB.
5. Attenuate the output of the RF generator to 2dB from 10μV of step 2 and check that the muting is till operating.

7-(2) AM Section

Tracking and Sensitivity

Low Frequency

1. Connect an RF generator to the antenna terminals on the rear panel, and set this to 600kHz with 30% modulation at 400Hz.
2. Connect an AC VTVM and an oscilloscope to Rec. Out on the rear panel.
3. Set the dial pointer to 600kHz.
4. Adjust the osc. transformer L112 and the ferrite bar antenna to maximize the output signal.

High Frequency

5. Set the RF generator to 1,400kHz with 30% modulation at 400Hz.
6. Set the dial pointer to 1,400kHz.
7. Adjust the trimmers TC4 and TC2 in the AM tuning gang so that the output signal is maximized.
8. Repeat these high and low frequency adjustments alternately until maximum sensitivity is obtained.

8. Power Amplifier Adjustment Procedures

( ): For Right Channel Adjustment

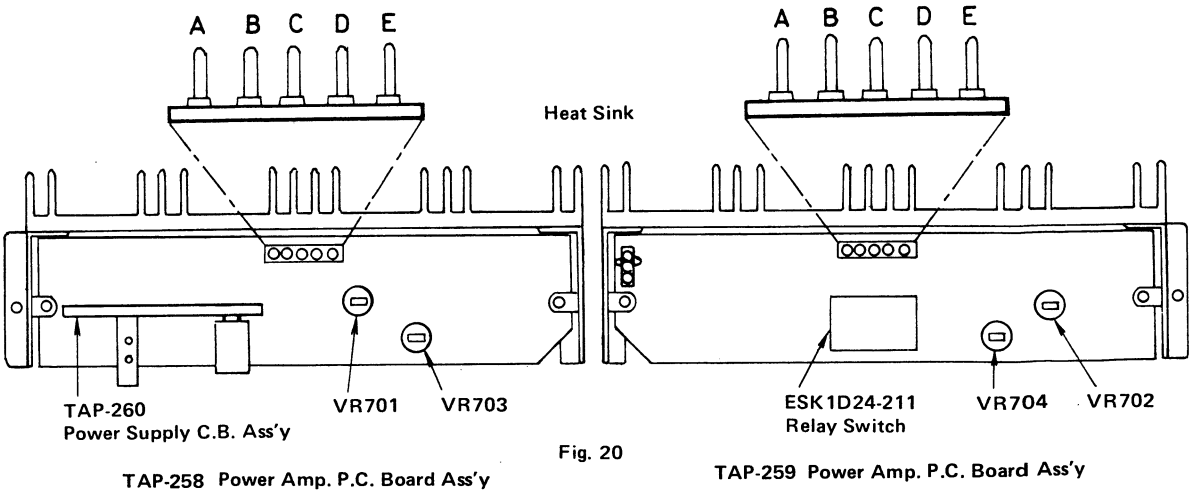

A B C D E
A B C D E
Heat Sink
TAP-260
Power Supply C.B. Ass'y
VR701
VR703
ESK1D24-211
Relay Switch
VR704
VR702
TAP-258 Power Amp. P.C. Board Ass'y
TAP-259 Power Amp. P.C. Board Ass'y

Fig. 20

8-(1) Center Voltage

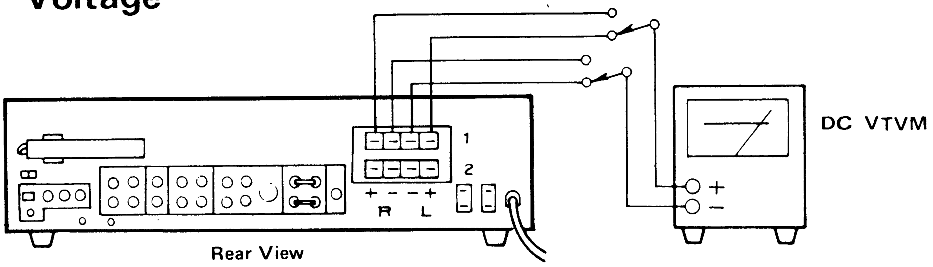

1
2
R L
DC VTVM
+
−
Rear View

Fig. 21

1. Set VR701 located on TAP-258 (VR702 located on TAP-259) to center position before pressing the power switch ON. Refer to fig. 20.
2. Connect a DC VTVM to left channel (right channel) speaker terminals on the rear panel. Refer to fig. 21.
3. Adjust VR701 (VR702) for DC VTVM reading of "0" Volt. Refer to fig. 20.

8-(2) Idling Current

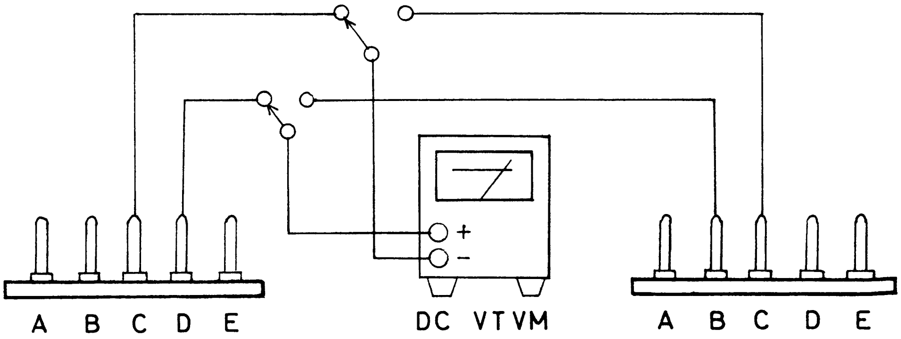

+
−
A B C D E
DC VTVM
A B C D E
Left Channel
(TAP-258)
Right Channel
(TAP-259)

Fig. 22

1. Turn VR703 located on TAP-258 fully counterclockwise and turn VR704 located on TAP-259 fully clockwise before pressing the power switch ON. Refer to fig. 20.
2. Connect a DC VTVM to test points "C" and "D" located on TAP-258 ("B" and "C" located on TAP-259). Refer to fig. 22.
3. Adjust VR703 located on TAP-258 (VR704 located on TAP-259) for DC VTVM reading of 10mV.

8-(3) Power Meter

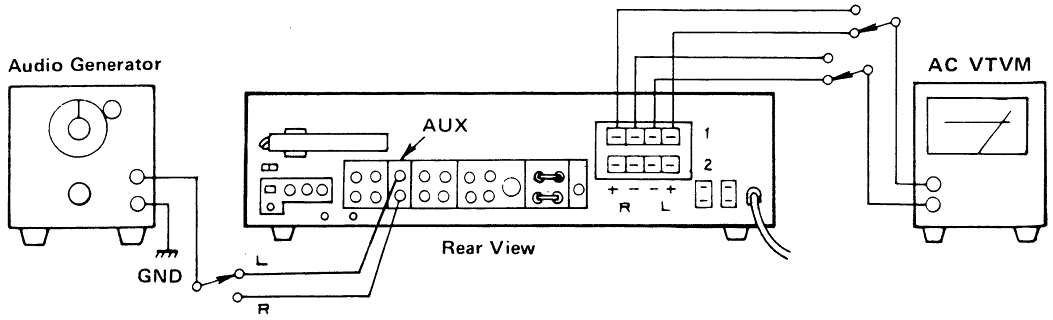
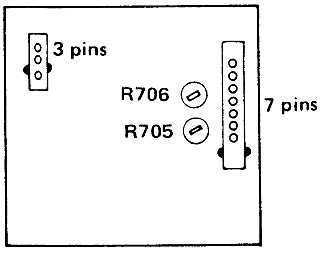
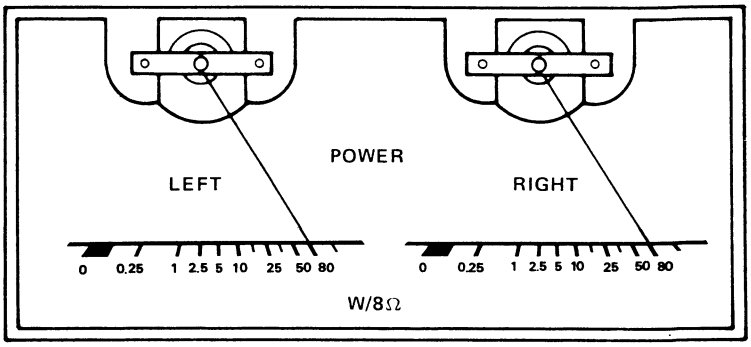

Audio Generator
AC VTVM
AUX
1
2
+ − − +
R L
Rear View
GND
L
R

Fig. 23


3 pins
R706
R705
7 pins

Top View of TAC-448A

Fig. 24


POWER
LEFT
RIGHT
0 0.25 1 2.5 5 10 25 50 80
0 0.25 1 2.5 5 10 25 50 80
W/8Ω

Power Meter

Fig. 25

1. Turn R706 and R705 located on TAC-448A fully counterclockwise. Refer to fig. 24.
2. Connect an audio generator to left channel (right channel) AUX pin-jack on the rear panel. Refer to fig. 23.
3. Set the audio generator to 1kHz and sine wave.
4. Connect a AC VTVM to left channel (right channel) speaker terminals on the rear panel. Refer to fig. 23.
5. Adjust the output of audio generator for AC VTVM reading of 25.3V.
6. Adjust R706 (R705) so that the power meter indicates 80W. Refer to fig. 25.

9.Circuit Board Ass'y Part Locations and Parts List

9-(1) TPS-48 AC Block P.C.Board Ass'y

Note:
The number of TPS-48 AC Block P.C. Board Ass'y varies according to the area employed. See the table below.

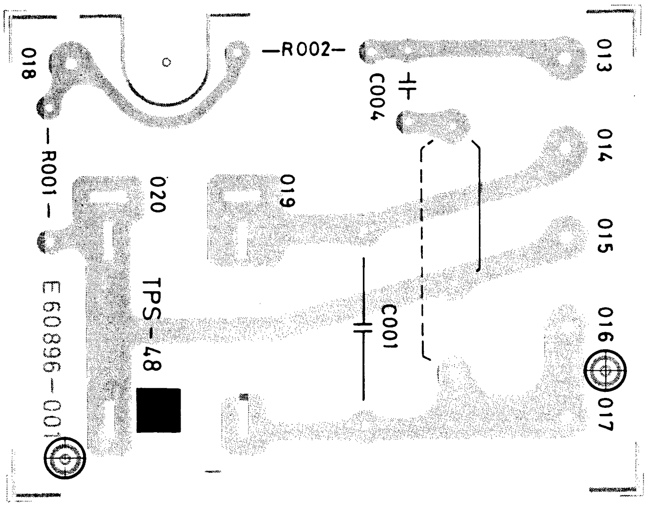

018
—R002—
013
C004
014
—R001—
020
019
015
TPS-48
E 60896-001
C001
016
017

Fig. 26

P.C. Board Ass'y	Item No.	Part Number	Rating		Description
TPS-48A	C001	QFH53AM-103M	0.01µF	AC 450V	Metalized Mylar Capacitor
	C002	QCZ9008-101	100pF	AC 1kV	Ceramic Capacitor
	R001	QRC121K-275E	2.7MΩ	1/2W	Composition Resistor
	R002	QRC121K-105E	1MΩ	"	"
TPS-48B	C001	QFH53AM-103M	0.01µF	AC 450V	Metalized Mylar Capacitor
	C002	QCZ9008-101	100pF	AC 1kV	Ceramic Capacitor
	R001	QRC121K-475E	4.7MΩ	1/2W	Composition Resistor
	R002	QRC121K-105E	1MΩ	"	"
TPS-48D	C001	ECQ-U-1A103(M)	0.01µF	AC 150V	Metalized Mylar Capacitor
	C002	QCZ9008-101	100pF	AC 1kV	Ceramic Capacitor
	R001	QRC121K-275E	2.7MΩ	1/2W	Composition Resistor
	R002	QRC121K-105E	1MΩ	"	"
TPS-64	C002	QCZ9003-101	100pF	AC 400V	Ceramic Capacitor

9-(2) TPS-49C Fuse P.C.Board Ass'y

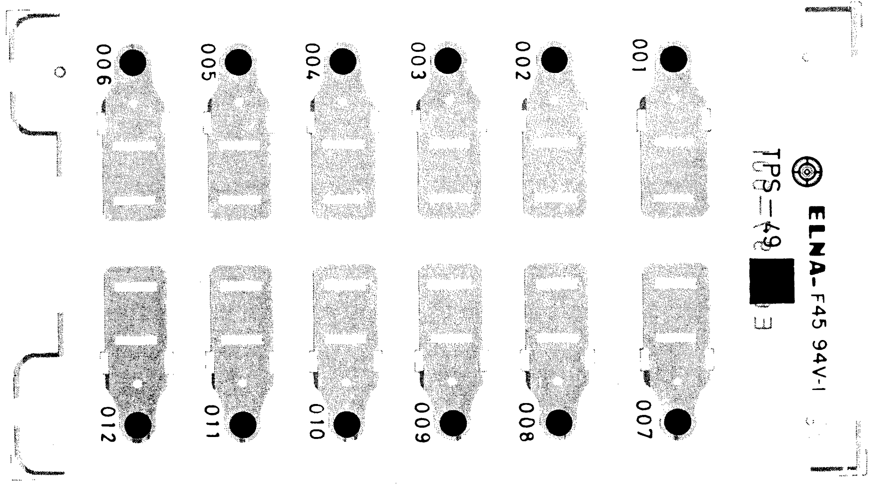

006
005
004
003
002
001
TPS-49
ELNA-F45 94V-1
012
011
010
009
008
007

Fig. 27

P.C. Board Ass'y	Designated Areas	Part Number	Description
TPS-49C	U.S.A.	E45524-001	Fuse Clip
TPS-49D	U.K. & Australia	E48965-002	Fuse Clip
TPS-49F	Europe	E48965-002	Fuse Clip

9-(3) TPS-50B Meter Lamp P.C.Board Ass'y

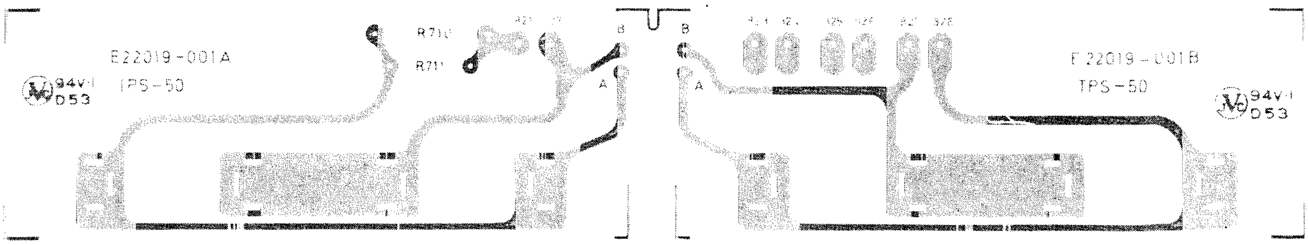

E22019-001A
TPS-50
94V-1
D53
R710
R711
B
A
E22019-001B
TPS-50
94V-1
D53

Fig. 28

Resistors

Item No.	Part Number	Rating		Description
R710 R711	QRG016J-680 QRD126J-681	68Ω 680Ω	1W 1/2W	O.M.F. Uninflammable Carbon

Other

Item No.	Part Number	Rating	Description
	E45524-001		Fuse Clip

9-(4) TPS-68A Stabilizer P.C.Board Ass'y

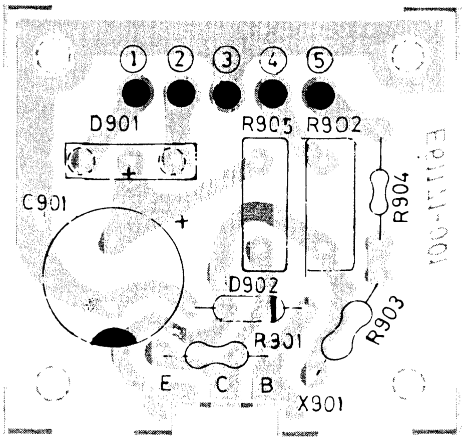

①
②
③
④
⑤
D901
R905
R902
R904
C901
+
D902
R301
R903
E
C
B
X901
E21111-001

Fig. 29

Transistors

Item No.	Part Number	Rating		Description	Maker
		Pc	fT		
X901	2SD313V (D, E)	30W	8MHz	Silicon	Sanyo

Diodes

Item No.	Part Number	Rating	Description	Maker
D901 D902	ESAB02-02C E0771-7		Silicon Zener	Kyodo Denki Fuji

Capacitor

Item No.	Part Number	Rating		Description
C901	QEW41EA-108	1,000μF	25V	Electrolytic

Resistors

Item No.	Part Number	Rating		Description
R901 R902 R903 R904	QRD126J-221 QRM054K-R22 QRD126J-151 QRD141J-270	220Ω 0.22Ω 150Ω 27Ω	1/2W 5W 1/2W 1/4W	Uninflammable Carbon Metalized Plate Uninflammable Carbon Carbon

9-(5) TAP-258 Power Amp. P.C.Board Ass'y

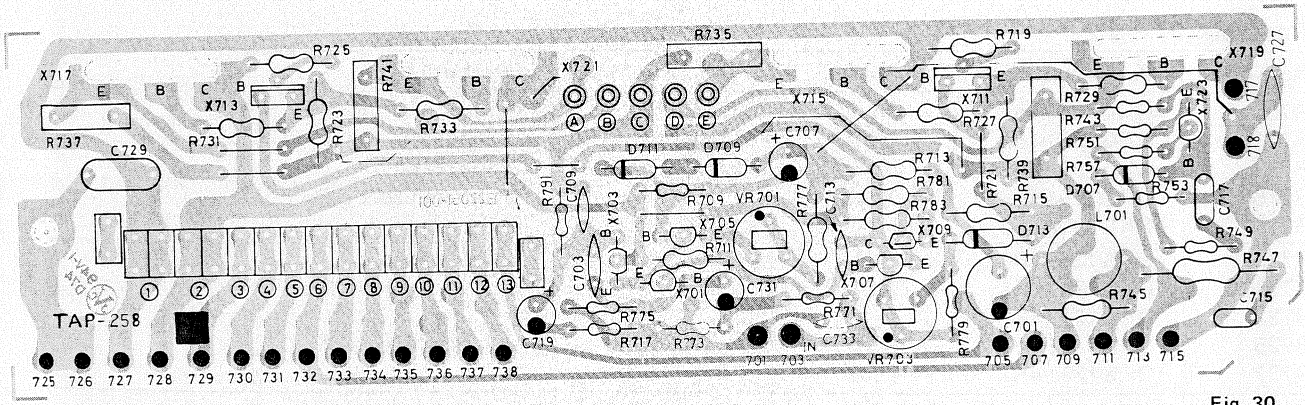

R725
R735
R719
X717
E
B
C
B
X713
E
R741
R723
E
B
C
X721
Ⓐ
Ⓑ
Ⓒ
Ⓓ
Ⓔ
E
X715
B
C
B
E
X711
R727
E
B
C
X719
C727
R737
C729
R731
R733
+ C707
D711
D709
R713
R781
R783
R721
R739
R715
R729
R743
R751
R757
D707
R753
X723
717
718
C717
R791
C709
X703
R709
VR701
X705
R711
R777
C713
X709
D713
L701
R749
R747
C703
X701
C731
X707
R745
C715
TAP-258
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
C719
R775
R717
R773
R771
IN
C733
VR703
R779
C701
725
726
727
728
729
730
731
732
733
734
735
736
737
738
701
703
705
707
709
711
713
715

Fig. 30

Transistors

Item No.	Part Number	Rating (Pc)	(fT)	Description	Maker
X701	2SA872AV (E)	300mW	200MHz	Silicon	Hitachi
X703	2SA872AV (E)	"	"	"	"
X705	2SA872AV (E)	"	"	"	"
X707	2SC1775AV (F)	"	"	"	"
X709	2SC1628 (O, Y)	1W	40MHz	"	Toshiba
X711	2SD381 (L, M)	20W	60MHz	"	NEC
X713	2SB536 (L, M)	"	"	"	"
X715	2SC898V (B, C)	80W	15MHz	"	Hitachi
X717	2SA753V (B, C)	"	"	"	"
X719	2SC898V (B, C)	"	"	"	"
X721	2SA753V (B, C)	"	"	"	"
X723	2SC1775AV (F)	300mW	200MHz	"	"

Diodes

Item No.	Part Number	Rating	Description	Maker
D707	1S2473		Silicon	Toyo Dengu
D709	1S2473		"	"
D711	1S2473		"	"
D713	SV03		Silicon Varistor	Sanken

Coil

Item No.	Part Number	Rating	Description
L701	E04059-2R7	2.7μH	Choke

Capacitors

Item No.	Part Number	Rating		Description
C703	QCS11HJ-471	470pF	50V	Ceramic
C707	QEW41AA-107	100μF	10V	Electrolytic
C709	QCS11HJ-220	22pF	50V	Ceramic
C711	QEW41HA-476	47μF	"	Electrolytic
C713	QCS12HJ-330	33pF	500V	Ceramic
C715	QFM41HK-473	0.047μF	50V	Mylar
C717	QFM41HK-104	0.1μF	"	"
C719	QEW41CA-226	22μF	16V	Electrolytic
C727	QFM42AK-473	0.047μF	100V	Mylar
C728	QCF12HP-103	0.01μF	500V	Ceramic
C729	QFM42AK-224	0.22μF	100V	Mylar
C731	QEB41HM-474	0.47μF	50V	L.L.C. Electrolytic
C733	QCS11HJ-271	270pF	"	Ceramic

Resistors

Item No.	Part Number	Rating		Description
R709	QRD181J-683	68kΩ	1/8W	Carbon
R711	QRG129J-182	1.8kΩ	1/2W	Oxide Metal
R713	QRG129J-392	3.9kΩ	1/2W	Oxide Metal
R715	QRG129J-562	5.6kΩ	"	Uninflammable O.M.
R717	QRD181J-222	2.2kΩ	1/8W	Carbon
R719	QRX129J-100	10Ω	1/2W	Uninflammable M.F.
R721	QRG129J-121	120Ω	"	Uninflammable O.M.
R723	QRG129J-121	"	"	"
R725	QRX129J-100	10Ω	"	Uninflammable M.F.
R727	QRX129J-4R7	4.7Ω	"	"
R729	QRX129J-4R7	4.7Ω	1/2W	Uninflammable M.F.
R731	QRX129J-4R7	"	"	"
R733	QRX129J-4R7	"	"	"
R735	QRM054K-R47	0.47Ω	5W	Metalized Plate
R737	QRM054K-R47	"	"	"
R739	QRM054K-R47	"	"	"
R741	QRM054K-R47	"	"	"
R743	QRD181J-222	2.2kΩ	1/8W	Carbon
R745	QRX129J-4R7	4.7Ω	1/2W	Uninflammable M.F.
R747	QRX027J-100	10Ω	2W	Uninflammable
R749	QRD181J-101	100Ω	1/8W	Carbon
R751	QRD181J-471	470Ω	"	"
R753	QRD181J-562	5.6kΩ	"	"
R757	QRD181J-123	12kΩ	"	"
R771	QRD181J-222	2.2kΩ	"	"
R773	QRD181J-224	220kΩ	"	"
R775	QRD181J-563	56kΩ	"	"
R777	QRG129J-221	220Ω	1/2W	Uninflammable O.M.
R779	QRD181J-271	270Ω	1/8W	Carbon
R781	QRG129J-182	1.8kΩ	1/2W	Uninflammable O.M.
R783	QRX129J-100	10Ω	1/2W	Uninflammable M.F.
R791	QRD181J-563	56kΩ	1/8W	Carbon
VR701	QVP4A0B-471	470Ω		Variable
VR703	QVP4A0B-221	220Ω		"

Others

Item No.	Part Number	Rating	Description
	E03565-3B0		3 Pins Socket
	E03606-001		Male Contact Plug
	E03677-003		Transistor Socket
	E22097-002		Heat Sink
	E34497-001		Heat Sink Bracket
	E34498-001		"
	E49784-002		Connect Pin

9-(6) TAP-259 Power Amp. P.C.Board Ass'y

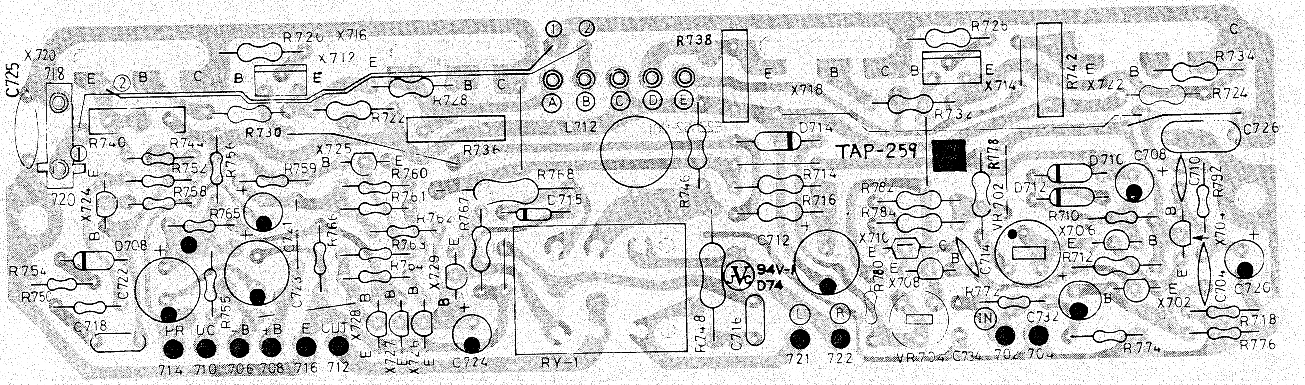

TAP-259
X720
X716
X712
X718
X714
X722
X725
X724
X702
X704
X706
X708
X710
X727
X728
X729
R738
R726
R734
R724
R742
R730
R736
R740
R722
R728
R760
R761
R768
R714
R716
R782
R784
R710
R712
R774
R718
R776
R754
R750
C725
C726
C708
C710
C712
C714
C716
C718
C720
C721
C722
C723
C724
C732
C734
D708
D710
D712
D714
D715
L712
VR702
VR704
RY-1
94V-1
PR
UC
CUT
IN
714 710 706 708 716 712
721 722
702 704
A B C D E
① ②

Fig. 31

Transistors

Item No.	Part Number	Rating (Pc)	(fT)	Description	Maker
X702	2SA872AV (E)	300mW	200MHz	Silicon	Hitachi
X704	2SA872AV (E)	"	"	"	"
X706	2SA872AV (E)	"	"	"	"
X708	2SC1775AV (F)	"	"	"	"
X710	2SC1628 (O, Y)	1W	40MHz	"	Toshiba
X712	2SD381 (L, M)	20W	60MHz	"	NEC
X714	2SB536 (L, M)	"	"	"	"
X716	2SC898V (B, C)	80W	15MHz	"	Hitachi
X718	2SA753V (B, C)	"	"	"	"
X720	2SC898V (B, C)	"	"	"	"
X722	2SA753V (B, C)	"	"	"	"
X724	2SC1775AV (F)	300mW	200MHz	"	"
X725	2SA872AV (E)	"	"	"	"
X726	2SC1775AV (F)	"	"	"	"
X727	2SC1775AV (F)	"	"	"	"
X728	2SC1775AV (F)	"	"	"	"
X729	2SD438 (E)	750mW	100MHz	"	Sanyo

Diodes

Item No.	Part Number	Rating	Description	Maker
D708	1S2473		Silicon	Toyo Dengu
D710	1S2473		"	"
D712	1S2473		"	"
D714	SV03		Silicon Varistor	Sanken
D715	1S2473		Silicon	Toyo Dengu

Coil

Item No.	Part Number	Rating	Description
L702	E04059-2R7	2.7μH	Choke

Capacitors

Item No.	Part Number	Rating		Description
C704	QCS11HJ-471	470pF	50V	Ceramic
C708	QEW41AA-107	100μF	10V	Electrolytic
C710	QCS11HJ-220	22pF	50V	Ceramic
C712	QEW41HA-476	47μF	″	Electrolytic
C714	QCS12HJ-330	33pF	500V	Ceramic
C716	QFM41HK-473	0.047μF	50V	Mylar
C718	QFM41HK-104	0.1μF	″	″
C720	QEW41CA-226	22μF	16V	Electrolytic
C721	QEW41EA-106	10μF	25V	″
C722	QEW41AA-227	220μF	10V	″
C723	QEW41AA-227	″	″	″
C724	QEW41AA-476	47μF	″	″
C725	QFM42AK-473	0.047μF	100V	Mylar
C726	QFM42AK-224	0.22μF	100V	″
C732	QEB41HM-474	0.47μF	50V	L.L.C. Electrolytic
C734	QCS11HJ-271	270pF	″	Ceramic

Resistors

Item No.	Part Number	Rating		Description
R710	QRD181J-683	68kΩ	1/8W	Carbon
R712	QRG129J-182	1.8kΩ	1/2W	Uninflammable O.M.
R714	QRG129J-392	3.9kΩ	1/2W	Oxide Metal
R716	QRG129J-562	5.6kΩ	″	Uninflammable
R718	QRD181J-222	2.2kΩ	1/8W	Carbon
R720	QRX129J-100	10Ω	1/2W	Uninflammable M.F.
R722	QRG129J-121	120Ω	″	Uninflammable O.M.
R724	QRG129J-121	″	″	″
R726	QRX129J-100	10Ω	″	Uninflammable M.F.
R728	QRX129J-4R7	4.7Ω	″	″
R730	QRX129J-4R7	″	″	″
R732	QRX129J-4R7	″	″	″
R734	QRX129J-4R7	″	″	″
R736	QRM054K-R47	0.47Ω	5W	Metalized Plate
R738	QRM054K-R47	″	″	″
R740	QRM054K-R47	″	″	″
R742	QRM054K-R47	″	″	″
R744	QRD181J-222	2.2kΩ	1/8W	Carbon
R746	QRX129J-4R7	4.7Ω	1/2W	Uninflammable M.F.
R748	QRX027J-100	10Ω	2W	Uninflammable
R750	QRD181J-101	100Ω	1/8W	Carbon
R752	QRD181J-471	470Ω	″	″
R754	QRD181J-562	5.6kΩ	″	″
R755	QRD181J-223	22kΩ	″	″
R756	QRD181J-223	″	″	″
R758	QRD181J-123	12kΩ	″	″
R759	QRD181J-104	100kΩ	″	″
R760	QRD181J-471	470Ω	″	″
R761	QRD181J-224	220kΩ	″	″
R762	QRD181J-823	82kΩ	″	″

Resistors

Item No.	Part Number	Rating		Description
R763	QRD181J-103	10kΩ	1/8W	Carbon
R764	QRD181J-103	10kΩ	″	″
R765	QRD181J-562	5.6kΩ	″	″
R766	QRD181J-822	8.2kΩ	″	″
R768	QRG027J-681	680Ω	2W	Oxide Metal Film
R772	QRD181J-222	2.2kΩ	1/8W	Carbon
R774	QRD181J-224	220kΩ	″	″
R776	QRD181J-563	56kΩ	″	″
R778	QRG129J-221	220Ω	1/2W	Uninflammable O.M.
R780	QRD181J-271	270Ω	1/8W	Carbon
R782	QRG129J-182	1.8kΩ	1/2W	Oxide Metal
R784	QRX129J-100	10Ω	1/2W	Uninflammable M.F.
R792	QRD181J-563	56kΩ	1/8W	Carbon
VR702	QVP4A0B-471	470Ω		Variable
VR704	QVP4A0B-221	220Ω		″

Switch

Item No.	Part Number	Rating	Description
RY-1	ESK1D24-214	24V	Relay

Others

Item No.	Part Number	Rating	Description
	E03606-001		Male Contact Plug
	E03677-003		Transistor Socket
	E22097-002		Heat Sink
	E34497-002		Heat Sink Bracket
	E34498-002		″

9-(7) TAP-260 Power Supply P. C. Bosrd Ass'y

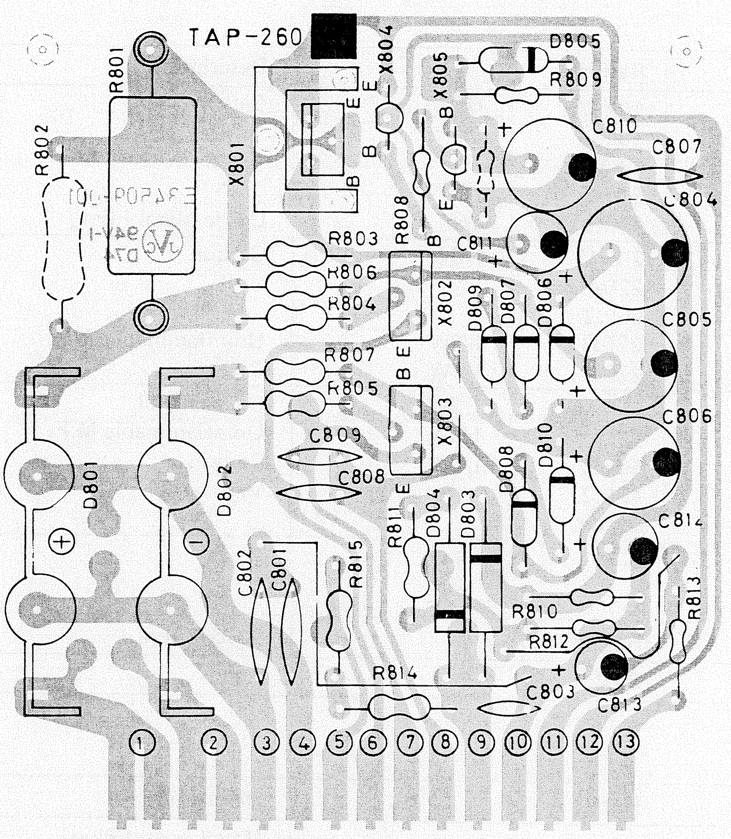

TAP-260
R801
R802
X801
X804
X805
D805
R809
C810
C807
C804
R803
R806
R804
R808
C811
X802
D809
D807
D806
C805
R807
R805
X803
C809
C808
D801
D802
C806
D808
D810
C814
R811
D804
D803
R815
C802
C801
R810
R812
R813
R814
C803
C813
E
B
+
−
1
2
3
4
5
6
7
8
9
10
11
12
13

Fig. 32

Transistors

Item No.	Part Number	Rating (Pc)	(fT)	Description	Maker
X801	2SD330V (D, E)	20W	8MHz	Silicon	Sanyo
X802	2SD313V (D, E)	30W	″	″	″
X803	2SB507V (D, E)	″	″	″	″

Diodes

Item No.	Part Number	Rating	Description	Maker
D801	ESAD01-02C		Silicon	Kyodo Denki
D802	ESAD01-02N		″	″
D804	SIB01-02		″	Fujitsu
D806	WZ-130		Zener	JRC
D807	WZ-090		″	″
D808	WZ-090		″	″
D809	WZ-210		″	″
D810	WZ-210		″	″

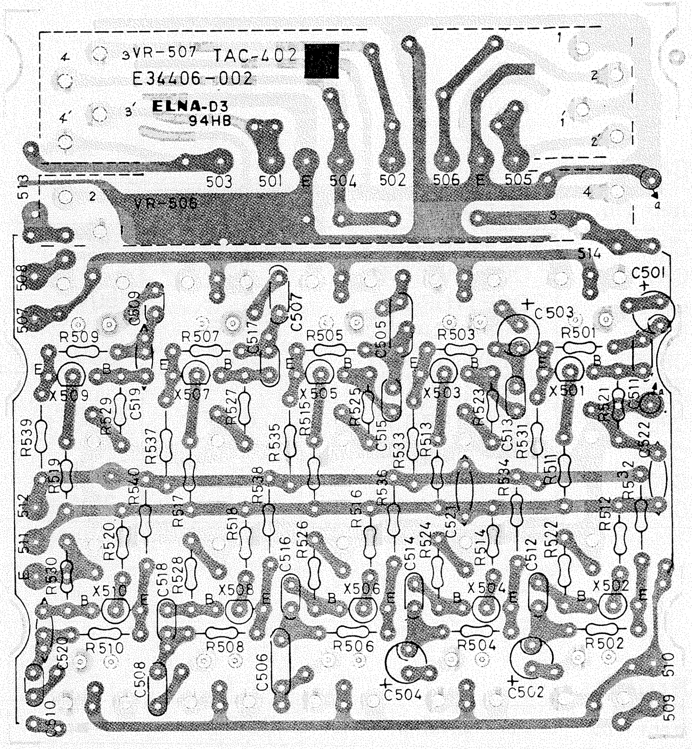
Capacitors

Item No.	Part Number	Rating		Description
C801	QCF12HP-103	0.01μF	500V	Ceramic
C802	QCF12HP-103	″	″	″
C803	QCF11HP-103	″	50V	″
C804	QEW41CA-227	220μF	16V	Electrolytic
C805	QEW41VA-107	100μF	35V	″
C806	QEW41VA-107	″	″	″
C807	QCF11HP-103	0.01μF	50V	Ceramic
C808	QCF11HP-103	″	″	″
C809	QCF11HP-103	″	″	″
C813	QEW41EA-106	10μF	25V	Electrolytic

Resistors

Item No.	Part Number	Rating		Description
R801	QRF051K-181	180Ω	5W	Cement
R803	QRG129J-392	3.9kΩ	1/2W	Oxide Metal Film
R804	QRG129J-470	47Ω	″	Uninflammable O.M.
R805	QRG129J-470	″	″	″
R806	QRG129J-392	3.9kΩ	″	Oxide Metal Film
R807	QRG129J-392	″	″	″
R808	QRD141J-823	82kΩ	1/4W	Carbon
R811	QRD126J-471	470Ω	″	″
R812	QRD141J-152	1.5kΩ	1/4W	Carbon
R813	QRD141J-822	8.2kΩ	″	″

9-(8) TAC-402D
S.E.A.(Sound Effect Amp.)
Control P.C.Board Ass'y



VR-507
TAC-402
E34406-002
ELNA-D3
94HB
503
501
E
504
502
506
E
505
VR-506
513
514
508
507
512
511
510
509
C501
C502
C503
C504
C505
C506
C507
C508
C509
C510
C511
C512
C513
C514
C515
C516
C517
C518
C519
C520
C521
C522
X501
X502
X503
X504
X505
X506
X507
X508
X509
X510
R501
R502
R503
R504
R505
R506
R507
R508
R509
R510
R511
R512
R513
R514
R515
R516
R517
R518
R519
R520
R521
R522
R523
R524
R525
R526
R527
R528
R529
R530
R531
R532
R533
R534
R535
R536
R537
R538
R539
R540

Fig. 33

Transistors

Item No.	Part Number	Rating (Pc)	(fT)	Description	Maker
X501	2SC1775AV (F)	300mW	200MHz	Silicon	Hitachi
X502	2SC1775AV (F)	"	"	"	"
X503	2SC1775AV (F)	"	"	"	"
X504	2SC1775AV (F)	"	"	"	"
X505	2SC1775AV (F)	"	"	"	"
X506	2SC1775AV (F)	"	"	"	"
X507	2SC1775AV (F)	"	"	"	"
X508	2SC1775AV (F)	"	"	"	"
X509	2SC1775AV (F)	"	"	"	"
X510	2SC1775AV (F)	"	"	"	"

Capacitors

Item No.	Part Number	Rating		Description
C501	QEB41EM-475	4.7μF	25V	L. L. C. Electrolytic
C502	QEB41EM-475	"	"	"
C503	QEB41HM-474	0.47μF	50V	"
C504	QEB41HM-474	"	"	"
C505	QFM41HK-124	0.12μF	"	Mylar
C506	QFM41HK-124	"	"	"
C507	QFM41HK-273	0.027μF	"	"
C508	QFM41HK-273	"	"	"
C509	QFM41HK-562	5600pF	"	"
C510	QFM41HK-562	"	"	"
C511	QFM41HK-223	0.022μF	"	"
C512	QFM41HK-223	"	"	"
C513	QFM41HK-822	8200pF	"	"
C514	QFM41HK-822	"	"	"
C515	QFM41HK-332	3300pF	"	"
C516	QFM41HK-332	"	"	"
C517	QFM41HK-102	1000pF	"	"
C518	QFM41HK-102	"	"	"
C519	QCS11HJ-681	680pF	"	Ceramic
C520	QCS11HJ-681	"	"	"
C521	QCF11HP-473	0.047μF	"	"
C522	QCF11HP-473	"	"	"

Resistors

Item No.	Part Number	Rating		Description
R501	QRD181J-122	1.2kΩ	1/8W	Carbon
R502	QRD181J-122	"	"	"
R503	QRD181J-122	"	"	"
R504	QRD181J-122	"	"	"
R505	QRD181J-122	"	"	"
R506	QRD181J-122	"	"	"
R507	QRD181J-122	"	"	"
R508	QRD181J-122	"	"	"
R509	QRD181J-122	"	"	"
R510	QRD181J-122	"	"	"
R511	QRD181J-391	390Ω	"	"
R512	QRD181J-391	"	"	"
R513	QRD181J-391	"	"	"
R514	QRD181J-391	"	"	"
R515	QRD181J-391	"	"	"
R516	QRD181J-391	"	"	"
R517	QRD181J-391	"	"	"
R518	QRD181J-391	"	"	"
R519	QRD181J-391	"	"	"
R520	QRD181J-391	"	"	"
R521	QRD181J-134	130kΩ	"	Carbon
R522	QRD181J-134	"	"	"
R523	QRD181J-913	91kΩ	"	"
R524	QRD181J-913	"	"	"
R525	QRD181J-513	51kΩ	"	"
R526	QRD181J-513	"	"	"
R527	QRD181J-333	33kΩ	"	"
R528	QRD181J-333	"	"	"
R529	QRD181J-243	24kΩ	"	"
R530	QRD181J-243	"	"	"
R531	QRD141J-682	6.8kΩ	1/4W	"
R532	QRD141J-682	"	"	"
R533	QRD141J-682	"	"	"
R534	QRD141J-682	"	"	"
R535	QRD141J-682	"	"	"
R536	QRD141J-682	"	"	"
R537	QRD141J-682	"	"	"
R538	QRD141J-682	"	"	"
R539	QRD141J-682	"	"	"
R540	QRD141J-682	"	"	"
VR501	QVZ5010-002			Slide Volume
VR502	QVZ5010-002			"
VR503	QVZ5010-002			"
VR504	QVZ5010-002			"
VR505	QVZ5010-002			"
VR506	QVT6C2W-6F5			"
VR507	QVT9C2B-5G5E			Slide Variable

Others

Item No.	Part Number	Rating	Description
	E34421-001		S.E.A. Bracket
	E60865-001		Felt Spacer

9-(9) TAC-414 Selector P.C.Board Ass'y

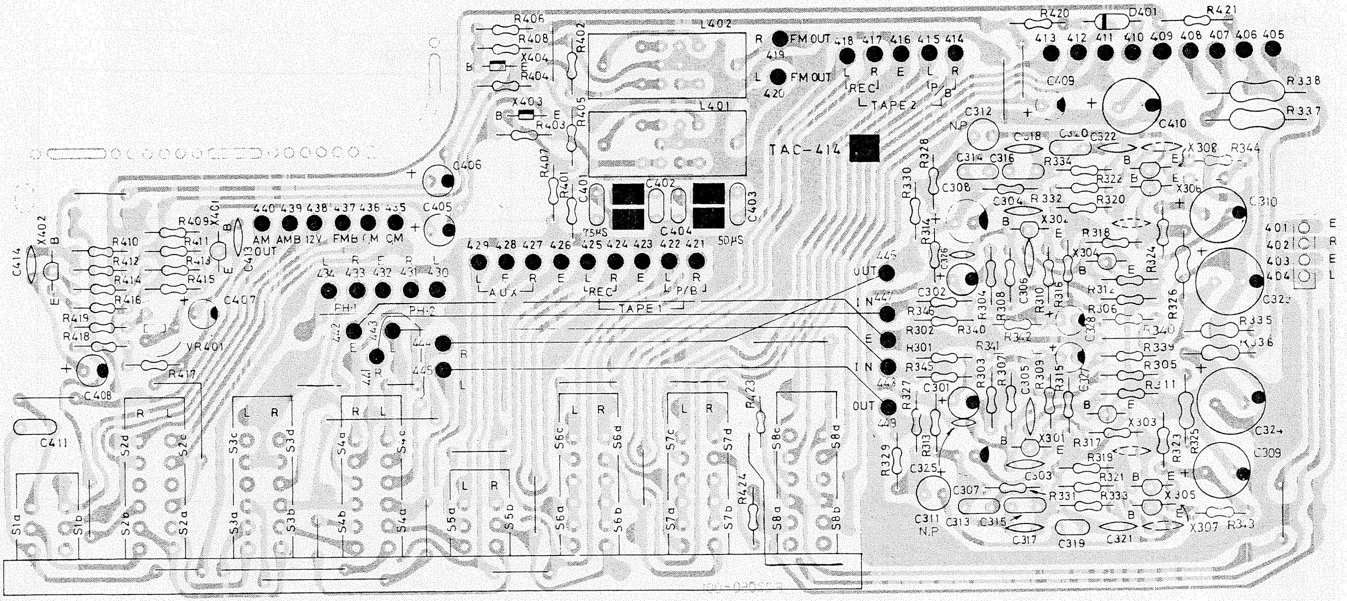

TAC-414
L402
L401
FM OUT
TAPE 2
TAPE 1
REC
P/B
AUX
PH-1
PH-2
AM AMB 12V FMB CM CM
VR401
D401
R420
R421
413 412 411 410 409 408 407 406 405
440 439 438 437 436 435
429 428 427 426 425 424 423 422 421
434 433 432 431 430
418 417 416 415 414
401 402 403 404
X301 X302 X303 X304 X305 X306 X307 X308
X401 X402 X403 X404
C301 C302 C303 C304 C305 C306 C307 C308 C309 C310
C401 C402 C403 C404 C405 C406 C407 C408 C409 C410 C411 C413 C414
S1a S1b S2a S2b S2c S2d S3a S3b S3c S3d S4a S4b S4c S4d S5a S5b S5c S5d S6a S6b S6c S6d S7a S7b S7c S7d S8a S8b S8c S8d
IN OUT
N.P

Fig. 34

Transistors

Item No.	Part Number	Rating (Pc)	(fT)	Description	Maker
X301	2SA872AV (E)	300mW	200MHz	Silicon	Hitachi
X302	2SA872AV (E)	″	″	″	″
X303	2SA872AV (E)	″	″	″	″
X304	2SA872AV (E)	″	″	″	″
X305	2SC1775AV (F)	″	″	″	″
X306	2SC1775AV (F)	″	″	″	″
X307	2SC1775AV (F)	″	″	″	″
X308	2SC1775AV (F)	″	″	″	″
X401	2SC1775AV (F)	″	″	″	″
X402	2SC1775AV (F)	″	″	″	″
X403	2SC458 (C)	200mW	230MHz	″	″
X404	2SC458 (C)	″	″	″	″

Diode

Item No.	Part Number	Rating	Description	Maker
D401	1S2473		Silicon	Toyo Dengu

Coils

Item No.	Part Number	Rating	Description
L401	E03427-009		Low Pass Filter
L402	E03427-009		″

Capacitors

Item No.	Part Number	Rating		Description
C301	QEB41EM-335	3.3μF	25V	L.L.C. Electrolytic
C302	QEB41EM-335	″	″	″
C303	QCS11HJ-331	330pF	50V	Ceramic
C304	QCS11HJ-331	″	″	″
C305	QCS11HJ-220	22pF	″	″

Capacitors

Item No.	Part Number	Rating		Description
C306	QCS11HJ-220	22pF	50V	Ceramic
C307	QEW40JA-106	10µF	6.3V	Electrolytic
C308	QEW40JA-106	″	″	″
C309	QEW41CA-107	100µF	16V	″
C310	QEW41CA-107	″	″	″
C311	QEZ0046-475	4.7µF	50V	Non Pole Electrolytic
C312	QEZ0046-475	″	″	″
C313	QFM41HJ-332	3300pF	″	Mylar
C314	QFM41HJ-332	″	″	″
C315	QFM41HJ-472	4700pF	″	″
C316	QFM41HJ-472	″	″	″
C317	QCS11HJ-271	270pF	″	Ceramic
C318	QCS11HJ-271	″	″	″
C319	QFM41HJ-222	2200pF	″	Mylar
C320	QFM41HJ-222	″	″	″
C321	QCS11HJ-101	100pF	″	Ceramic
C322	QCS11HJ-101	″	″	″
C323	QEW41VA-227	220µF	35V	Electrolytic
C324	QEW41VA-227	″	″	″
C325	QCS11HJ-330	33pF	50V	Ceramic
C326	QCS11HJ-330	″	″	″
C327	QEW41EA-106	10µF	25V	Electrolytic
C328	QEW41EA-106	″	″	″
C401	QFM41HJ-153	0.015µF	″	Mylar
C402	QFM41HJ-153	″	″	″
C403	QFM41HJ-103	0.01µF	″	″
C404	QFM41HJ-103	″	″	″
C405	QEB41HM-474	0.47µF	″	L.L.C. Electrolytic
C406	QEB41HM-474	″	″	″
C407	QEB41HM-105	1µF	″	″
C408	QEB41HM-105	″	″	″
C409	QEB41HM-474	0.47µF	″	″
C410	QEW41VA-107	100µF	35V	Electrolytic
C411	QFM41HK-333	0.033µF	50V	Mylar
C413	QCS11HJ-101	100pF	″	Ceramic
C414	QCS11HJ-101	″	″	″

Resistors

Item No.	Part Number	Rating		Description
R301	QRD141J-104SL	100kΩ	1/4W	Carbon
R302	QRD141J-104SL	″	″	″
R305	QRD141J-104SL	100kΩ	″	″
R306	QRD141J-104SL	″	″	″
R307	QRD141J-102SL	1kΩ	″	″
R308	QRD141J-102SL	″	″	″
R309	QRD141J-334SL	330kΩ	″	″
R310	QRD141J-334SL	″	″	″
R311	QRD141J-683SL	68kΩ	″	″
R312	QRD141J-683SL	″	″	″
R313	QRD141J-561SL	560Ω	″	″
R314	QRD141J-561SL	″	″	″
R315	QRD141J-683SL	68kΩ	″	″

Resistors

Item No.	Part Number	Rating		Description
R316	QRD141J-683SL	68kΩ	1/4W	Carbon
R319	QRD141J-102SL	1kΩ	"	"
R320	QRD141J-102SL	"	"	"
R321	QRD141J-102SL	"	"	"
R322	QRD141J-102SL	"	"	"
R323	QRD141J-821SL	820Ω	"	"
R324	QRD141J-821SL	"	"	"
R325	QRG129J-472	4.7kΩ	1/2W	Uninflammable O.M.
R326	QRG129J-472	"	"	"
R327	QRD141J-104SL	100kΩ	1/4W	Carbon
R328	QRD141J-104SL	"	"	"
R329	QRD141J-471SL	470Ω	"	"
R330	QRD141J-471SL	"	"	"
R331	QRD141J-394SL	390kΩ	"	"
R332	QRD141J-394SL	"	"	"
R333	QRD141J-333	33kΩ	"	"
R334	QRD141J-333	"	"	"
R335	QRG129J-221	220Ω	1/2W	Uninflammable O.M.
R336	QRG129J-221	"	"	"
R337	QRG017J-331	330Ω	1W	O.M.F.
R338	QRG017J-331	"	"	"
R339	QRD141J-332SL	3.3kΩ	1/4W	Carbon
R340	QRD141J-332SL	"	"	"
R341	QRD141J-223SL	22kΩ	"	"
R342	QRD141J-223SL	"	"	"
R345	QRD141J-102SL	1kΩ	"	"
R346	QRD141J-102SL	"	"	"
R401	QRD141J-392SL	3.9kΩ	"	"
R402	QRD141J-392SL	"	"	"
R403	QRD141J-272SL	2.7kΩ	"	"
R404	QRD141J-272SL	"	"	"
R405	QRD141J-223SL	22kΩ	"	"
R406	QRD141J-223SL	"	"	"
R407	QRD141J-333SL	33kΩ	"	"
R408	QRD141J-333SL	"	"	"
R409	QRD141J-474SL	470kΩ	"	"
R410	QRD141J-474SL	"	"	"
R411	QRD141J-393SL	39kΩ	"	"
R412	QRD141J-393SL	"	"	"
R413	QRD141J-562SL	5.6kΩ	"	"
R414	QRD141J-562SL	"	"	"
R415	QRD141J-471SL	470Ω	"	"
R416	QRD141J-471SL	"	"	"
R417	QRD141J-104SL	10kΩ	"	"
R418	QRD141J-104SL	"	"	"
R419	QRD141J-222SL	2.2kΩ	"	"
R420	QRD141J-123SL	12kΩ	"	"
R421	QRD141J-471	470Ω	"	"
VR401	QVP4A0B-473	47kΩ		Variable

Others

Item No.	Part Number	Rating	Description
	E49545-001		Pin
	E49766-001		4 Pins Socket
	QSP0289-106		Push Switch

9-(10) TAC-446A S.E.A. (Sound Effect Amp.) Amp. P.C.Board Ass'y

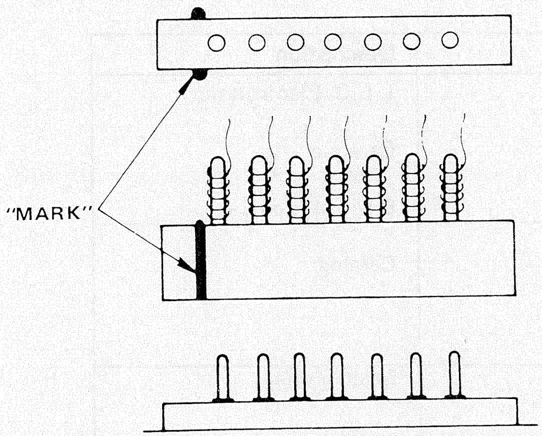
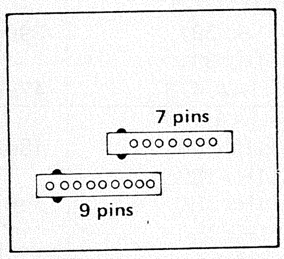


Fig. 35-A

Precaution

Reconnect the female plug to a proper position as indicated "MARK". Refer to Fig. 34-B.


7 pins
9 pins

Top View of TAC-446A

Fig. 35-B

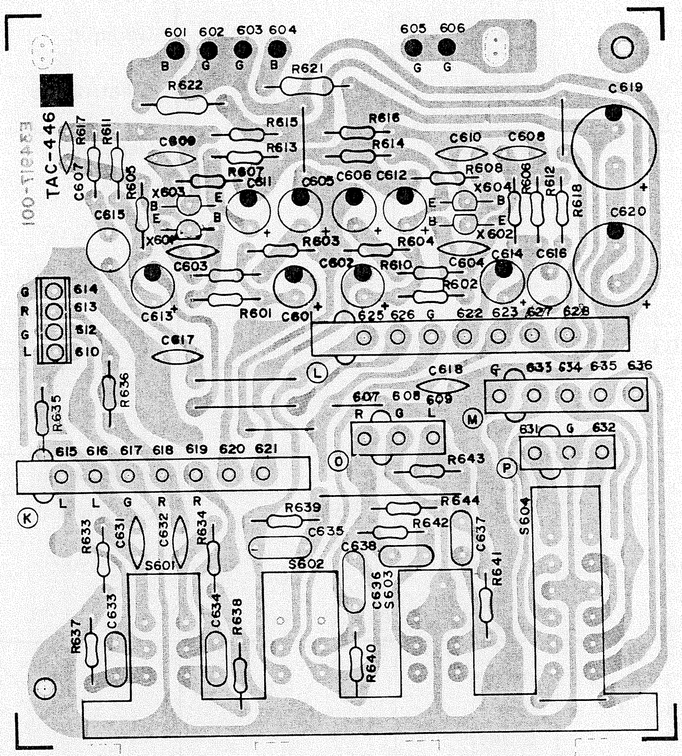

TAC-446
601
602
603
604
605
606
B
G
G
B
G
G
R622
R621
R615
R613
R616
R614
C619
C609
C610
C608
R617
R611
C607
R605
R607
C611
C605
C606
C612
R608
X604
R606
R612
R618
C620
X603
C615
X601
R603
R604
X602
C603
C602
R610
C604
C614
C616
R602
C613
R601
C601
614
613
612
610
C617
625
626
622
623
627
628
C618
633
634
635
636
R636
R635
607
608
609
631
632
615
616
617
618
619
620
621
R643
R644
R639
R642
C635
C638
C637
S604
R633
C631
C632
R634
S601
S602
C636
S603
R641
R637
C633
C634
R638
R640
K
L
M
O
P

Fig. 35-C

Transistors

Item No.	Part Number	Rating (Pc)	(fT)	Description	Maker
X601	2SA872AV (E)	300mW	200MHz	Silicon	Hitachi
X602	2SA872AV (E)	"	"	"	"
X603	2SC1775AV (F)	"	"	"	"
X604	2SC1775AV (F)	"	"	"	"

Capacitors

Item No.	Part Number	Rating		Description
C601	QEB41EM-225	2.2μF	25V	L.L.C. Electrolytic
C602	QEB41EM-225	"	"	"
C603	QCS11HJ-391	390pF	50V	Ceramic
C604	QCS11HJ-391	"	"	"
C605	QEW41AA-476	47μF	10V	Electrolytic
C606	QEW41AA-476	"	"	"
C607	QCS11HJ-180	18pF	50V	Ceramic
C608	QCS11HJ-180	"	"	"
C609	QCS11HJ-3R0	3pF	"	"
C610	QCS11HJ-3R0	"	"	"
C611	QEW41AA-476	47μF	10V	Electrolytic
C612	QEW41AA-476	"	"	"
C613	QEW41AA-476	47μF	"	"
C614	QEW41AA-476	"	"	"
C615	QZ0046-475	4.7μF	50V	N.P. Electrolytic
C616	QZ0046-475	"	"	"
C617	QCS11HJ-151	150pF	"	Ceramic
C618	QCS11HJ-151	"	"	"
C619	QEW41EA-107	100μF	25V	Electrolytic
C620	QEW41EA-107	"	"	"
C631	QCS11HJ-271	270pF	50V	Ceramic
C632	QCS11HJ-271	"	"	"
C633	QFM41HK-273	0.027μF	"	Mylar
C634	QFM41HK-273	"	"	"
C635	QFM41HK-563	0.056μF	"	"
C636	QFM41HK-563	"	"	"
C637	QFM41HK-103	0.01μF	"	"
C638	QFM41HK-103	"	"	"

Resistors

Item No.	Part Number	Rating		Description
R601	QRD181J-102	1kΩ	1/8W	Carbon
R602	QRD181J-102	"	"	"
R603	QRD181J-184	180kΩ	"	"
R604	QRD181J-184	"	"	"
R605	QRD181J-682	6.8kΩ	"	"
R606	QRD181J-682	"	"	"
R607	QRD181J-823	82kΩ	"	"
R608	QRD181J-823	"	"	"
R609	QRD181J-222	2.2kΩ	"	"
R610	QRD181J-222	"	"	"
R611	QRD181J-103	10kΩ	"	"
R612	QRD181J-103	"	"	"
R613	QRD181J-182	1.8kΩ	"	"
R614	QRD181J-182	"	"	"

Resistors

Item No.	Part Number	Rating		Description
R615	QRD141J-562	5.6kΩ	1/4W	Carbon
R616	QRD141J-562	''	''	''
R617	QRD181J-682	6.8kΩ	1/8W	''
R618	QRD181J-682	''	''	''
R619	QRD181J-104	100kΩ	''	''
R620	QRD181J-104	''	''	''
R621	QRX129J-100	10Ω	1/2W	Unflamable M.F.
R622	QRX129J-100	''	''	''
R633	QRD181J-564	560kΩ	1/8W	Carbon
R634	QRD181J-564	''	''	''
R635	QRD181J-332	3.3kΩ	''	''
R636	QRD181J-332	''	''	''
R637	QRD181J-153	15kΩ	''	''
R638	QRD181J-153	''	''	''
R639	QRD181J-224	220kΩ	''	''
R640	QRD181J-224	''	''	''
R641	QRD181J-224	''	''	''
R642	QRD181J-224	''	''	''
R643	QRD181J-273	27kΩ	''	''
R644	QRD181J-273	''	''	''

Others

Item No.	Part Number	Rating	Description
	E03628-3UD		3 Pin Plug
	E03628-5UD		5 Pin Plug
	E03628-7UD		7 Pin Plug
	E49545-001		Pin
	E49766-002		4 Pin Socket
	QSP0249-103		Push Switch

9-(11) TAC-448A Speaker P.C.Board Ass'y

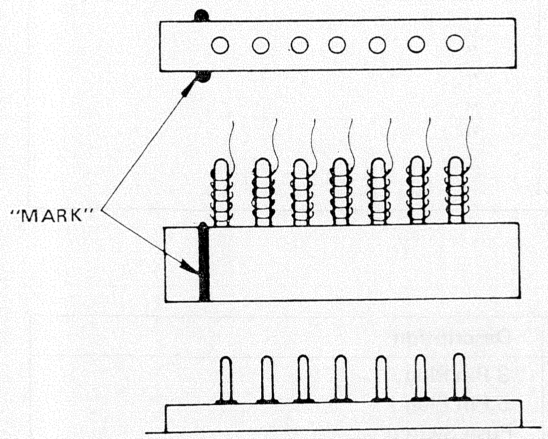
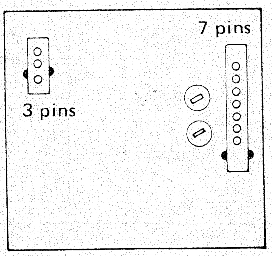


Fig. 36-A


7 pins
3 pins

Precaution
Reconnect the female plug to a proper position as indicated "MARK". Refer to Fig. 36-B.

Top View of TAC-448A

Fig. 36-B

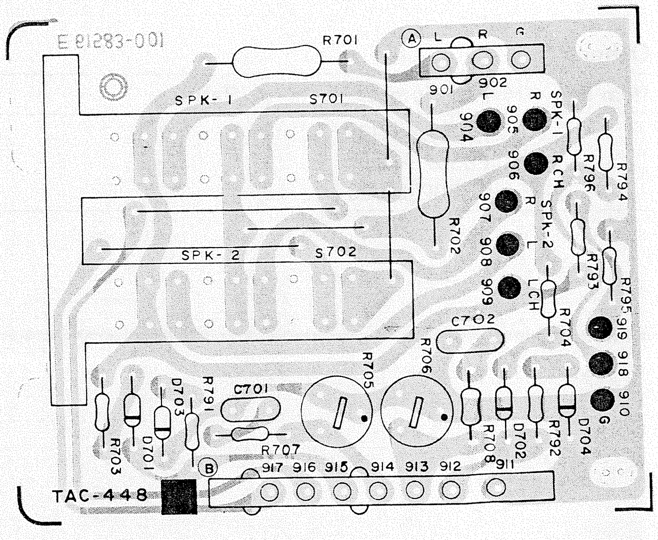

E 81283-001
R701
Ⓐ
L
R
G
901
902
SPK-1
S701
L
R
SPK-1
904
905
906
R CH
R796
R794
R702
907
908
909
R
SPK-2
L
LCH
SPK-2
S702
R793
R795
919
918
910
G
C702
R704
R705
R706
R791
C701
D703
R703
D701
R707
R708
D702
R792
D704
Ⓑ
917
916
915
914
913
912
911
TAC-448

Fig. 37

Diodes

Item No.	Part Number	Rating	Description	Maker
D701	1S2473		Germanium	Toyo Dengu
D702	1S2473		〃	〃
D703	1S2473		〃	〃
D704	IS2473		〃	〃

Capacitors

Item No.	Part Number	Rating		Description
C701	QFM41HJ-332	3300pF	50V	Mylar
C702	QFM41HJ-332	〃	〃	〃

Resistors

Item No.	Part Number	Rating		Description
R701	QRG027J-221	220Ω	2W	Oxide Metal Film
R702	QRG027J-221	〃	〃	〃
R703	QRD181J-562	5.6kΩ	1/8W	Carbon
R704	QRD181J-562	〃	〃	〃
R705	QVP4A0B-222	2.2kΩ		Variable
R706	QVP4A0B-222	〃		〃
R707	QRD181J-821	820Ω	1/8W	Carbon
R708	QRD181J-821	〃	〃	〃
R791	QRD181J-331	330Ω	〃	〃
R792	QRD181J-331	〃	〃	〃
R793	QRD181J-472	4.7kΩ	〃	〃
R794	QRD181J-472	〃	〃	〃
R795	QRD181J-122	1.2kΩ		〃
R796	QRD181J-122	〃	〃	〃

Others

Item No.	Part Number	Rating	Description
	E03628-3UD		3 Pin Plug
	E03628-5UD		5 Pin Plug
	QSP0229-009		Push Switch

9-(12) TFM-910GUA2 FM/AM Tuner P.C.Board Ass'y

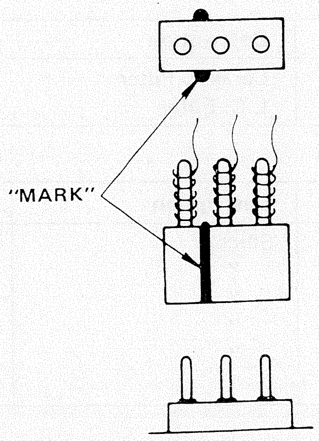
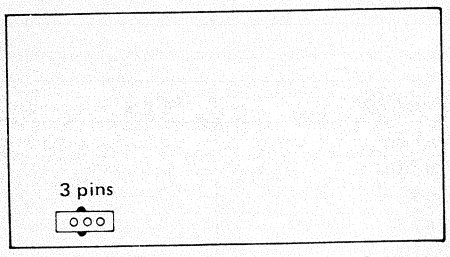


Fig. 38

Precaution
Reconnect the female plug to a proper position as indicated "MARK". Refer to Fig. 39-B.



Top View of TFM-910GUA2

Fig. 39

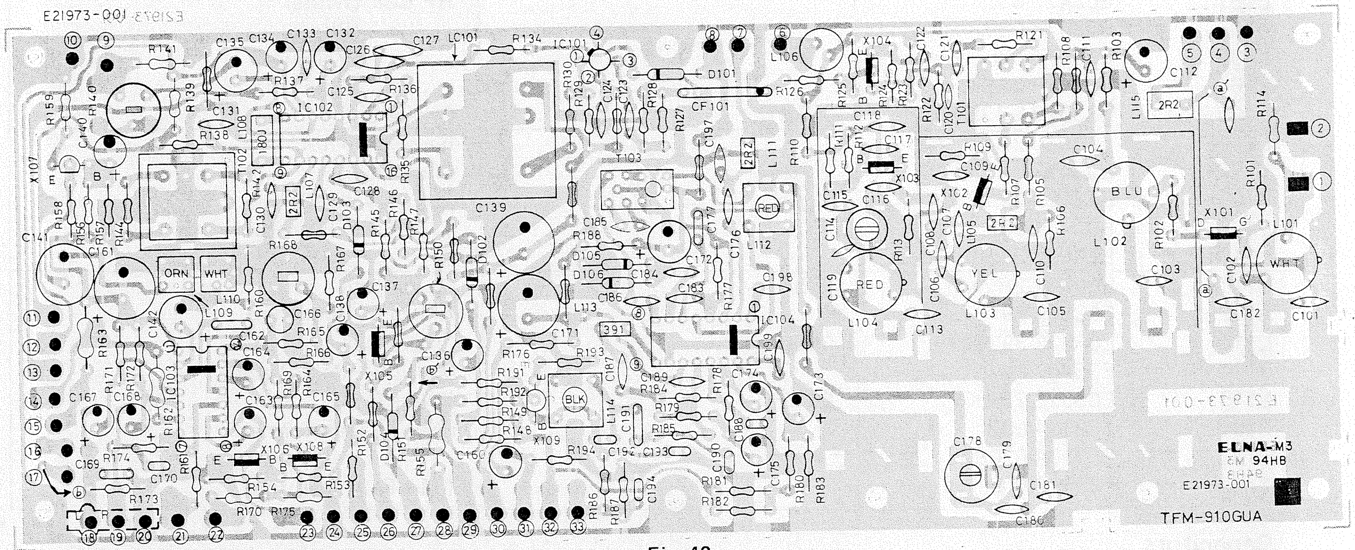

E21973-001
ELNA-M3
94HB
E21973-001
TFM-910GUA
IC101
IC102
IC103
IC104
X101
X102
X103
X104
X105
X106
X107
X108
X109
CF101
LC101
BLU
YEL
RED
WHT
ORN
BLK
2R2
2H2
180J
391

Fig. 40

Transistors

Item No.	Part Number	Rating		Description	Maker
		Pc	fT		
X101	2SK55D	IDSS: 14mA, NF: 3.5dB (f=100MHz)		F.E.T.	Hitachi
X102	2SC535 (C)	100mW	700MHz	Silicon	"
X103	2SC1342 (B)	"	250MHz	"	"
X104	2SC535 (B)	100mW	700MHz	"	"
X105	2SC458 (C)	200mW	230MHz	"	"
X106	2SC458 (C)	"	"	"	"
X107	2SC1775AV (F)	300mW	200MHz	"	"
X108	2SC458 (C)	200mW	230MHz	"	"
X109	2SC1775AV (F)	300mW	200MHz	"	"

Integrated Circuits

Item No.	Part Number	Rating	Description	Maker
IC101	LA1221		I.C.	Hitachi
IC102	HA1137W	550mW	"	"
IC103	HA1156W	400mW	"	"
IC104	HA1197	450mW	"	"

Filters

Item No.	Part Number	Rating	Description
CF101	E03609-002R		Ceramic Filter
LC101	E03618-001		L.C. Filter

Diodes

Item No.	Part Number	Rating	Description	Maker
D101	1S2473		Silicon	Toyo Dengu
D102	1S2473		"	"
D103	1S2473		"	"
D104	1S2473		"	"
D105	1S2473		"	"
D106	1S2473		"	"

Coils

Item No.	Part Number	Rating	Description
L101	E03477-031		RF Coil (White)
L102	E03477-036		" (Blue)
L103	E03477-033		" (Yellow)
L104	E03477-034		" (Red)
L105	E03522-2R2KY	2.2μH	Choke Coil
L106	E03566-223		Ferry Inductor
L107	E03522-2R2KY	2.2μH	Choke Coil
L108	E03522-220K	22μH	FM Detector Coil
L109	E03406-002		Trap Filter (Orange)
L110	E03406-003		" (White)
L111	E03522-2R2KY	2.2μH	Choke Coil
L112	E03079-29		AM OSC Coil (Red)
L113	E03522-391KY	390μH	Choke Coil
L114	E03407-005		Multiplex Coil (Black)
L115	E03522-2R2KY	2.2μH	Choke Coil
T101	E03134-023		FM I.F. Transformer
T102	E03134-020B		"
T103	E03613-003		AM I.F. Transformer

Capacitors

Item No.	Part Number	Rating		Description
	QAA2245-001			Variable Tuning
C101	QCS11HJ-150	15pF	50V	Ceramic
C102	QCS11HJ-330	33pF	"	"
C103	QCS11HJ-180	18pF	"	"
C104	QCF11HP-223A	0.022μF	"	"
C105	QCS11HJ-180	18pF	"	"
C106	QCS11HJ-4R0	4pF	"	"
C107	QCS11HJ-4R0	"	"	"
C108	QCT05CH-2R0	2pF	"	"
C109	QCF11HP-223A	0.022μF	"	"
C110	QCS11HJ-101	100pF	"	"
C111	QCF11HP-223A	0.022μF	"	"
C113	QCT05SH-220	22pF	"	"
C114	QAT3001-014			Trimmer
C115	QCT05CH-7R0	7pF	50V	Ceramic
C116	QCT05CH-100	10pF	"	"
C117	QCT05CH-220	22pF	"	"
C118	QCF11HP-223A	0.022μF	"	"
C121	QCF11HP-223A	"	"	"
C122	QCF11HP-223A	"	"	"

Capacitors

Item No.	Part Number	Rating		Description
C123	QCF11HP-223A	0.022μF	50V	Ceramic
C124	QCF11HP-223A	″	″	″
C125	QCF11HP-223A	″	″	″
C126	QCZ0107-473	0.047μF	25V	″
C127	QCZ0107-473	″	″	″
C128	QCS11HJ-151	150pF	50V	″
C129	QCF11HP-223A	0.022μF	″	″
C130	QCF11HP-223A	″	″	″
C131	QCF11HP-223A	″	″	″
C132	QEB41EM-475	4.7μF	25V	L.L.C. Electrolytic
C133	QCS11HJ-330	33pF	50V	Ceramic
C134	QEW41HA-105	1μF	″	Electrolytic
C135	QEW41CA-226	22μF	16V	″
C136	QEW41AA-476	47μF	10V	″
C137	QEW41HA-474	0.47μF	50V	″
C138	QEW41HA-105	1μF	″	″
C139	QEW41CA-227	220μF	16V	″
C140	QEW41CA-226	22μF	″	Electrolytic
C141	QEW41CA-107	100μF	″	″
C142	QEB41EM-106	10μF	25V	L.L.C. Electrolytic
C160	QEB41HM-224	0.22μF	50V	″
C161	QEW41CA-227	220μF	16V	Electrolytic
C162	QFM41HK-473	0.047μF	50V	Mylar
C163	QEB41HM-105	1μF	″	L.L.C. Electrolytic
C164	QEB41HM-224	0.22μF	″	″
C165	QEB41EM-106	10μF	25V	″
C166	QFS42BJ-471	470pF	125V	Polystyrene
C167	QEB41HM-105	1μF	50V	L.L.C. Electrolytic
C168	QEB41HM-105	″	″	″
C169	QFM41HK-102	1000pF	″	Mylar
C170	QFM41HK-102	″	″	″
C171	QEW41CA-227	220μF	16V	Electrolytic
C172	QEW41CA-476	47μF	″	″
C173	QEW41AA-476	47μF	10V	″
C174	QEW41HA-105	1μF	50V	″
C175	QEW41CA-106	10μF	16V	″
C176	QCF11HP-223A	0.022μF	50V	Ceramic
C177	QFM41HK-103	0.01μF	″	Mylar
C178	QAT3001-006			Trimmer
C179	QCS11HJ-560	56pF	50V	Ceramic
C180	QSC11HJ-271	270pF	″	″
C181	QCS11HJ-180	18pF	″	″
C182	QCS11HJ-5R0	5pF	″	Ceramic
C183	QCF11HP-223A	0.022μF	″	″
C184	QCF11HP-223A	″	″	″
C185	QCS11HJ-470	47pF	″	″
C186	QCF11HP-223A	0.022μF	″	Ceramic
C187	QCS11HJ-331	330pF	″	″
C188	QFM41HK-102	1000pF	″	Mylar
C189	QCF11HP-223A	0.022μF	″	Ceramic
C190	QFM41HK-222	2200pF	″	Mylar
C191	QFM41HK-473	0.047μF	″	″
C192	QFM41HK-103	0.01μF	″	″
C193	QFM41HK-222	2200pF	″	″
C195	QCF11HP-223A	0.022μF	″	Ceramic
C197	QCS11HJ-470	47pF	″	″
C199	QCZ0107-473	0.047μF	25V	″

Resistors

Item No.	Part Number	Rating		Description
R101	QRD181J-105	1MΩ	1/8W	Carbon
R102	QRD181J-820	82Ω	''	''
R103	QRD181J-820	''	''	''
R105	QRD181J-223	22kΩ	''	''
R106	QRD181J-392	3.9kΩ	''	''
R107	QRD181J-470	47Ω	''	''
R108	QRD181J-123	12kΩ	''	''
R109	QRD181J-102	1kΩ	''	''
R110	QRD181J-331	330Ω	''	''
R111	QRD181J-123	12kΩ	''	''
R112	QRD181J-822	8.2kΩ	''	''
R113	QRD181J-152	1.5kΩ	''	''
R114	QRD181J-682	6.8kΩ	''	''
R121	QRD181J-181	180Ω	''	''
R122	QRD181J-332	3.3kΩ	''	''
R123	QRD181J-562	5.6kΩ	''	''
R124	QRD181J-102	1kΩ	''	''
R125	QRD181J-271	270Ω	''	''
R126	QRD181J-221	220Ω	''	''
R127	QRD181J-181	180Ω	''	''
R128	QRD181J-331	330Ω	''	''
R129	QRD181J-102	1kΩ	''	''
R130	QRD181J-221	220Ω	''	''
R134	QRD181J-334	330kΩ	''	''
R135	QRD181J-271	270Ω	''	''
R136	QRD181J-391	390Ω	''	''
R137	QRD181J-123	12kΩ	''	''
R138	QRD181J-752	7.5kΩ	''	''
R139	QRD181J-271	270Ω	''	''
R140	QVP4AOB-223	22kΩ		Variable
R141	QRD181J-473	47kΩ	1/8W	Ceramic
R142	QRD181J-562	5.6kΩ	''	''
R144	QRD181J-332	3.3kΩ	''	Carbon
R145	QRD181J-332	3.3kΩ	''	Carbon
R146	QRD181J-822	8.2kΩ	''	''
R147	QRD181J-683	68kΩ	''	''
R148	QRD181J-222	2.2kΩ	''	''
R149	QRD181J-682	6.8kΩ	''	''
R150	QVP4AOB-473	47kΩ		Variable
R151	QRD181J-223	22kΩ	1/8W	Carbon
R152	QRD181J-223	''	''	''
R153	QRD181J-563	56kΩ	''	''
R154	QRD181J-563	''	''	''
R155	QRD126J-100	10Ω	1/2W	Uninflammable Carbon
R156	QRD181J-124	120kΩ	1/8W	Carbon
R157	QRD181J-273	27kΩ	''	''
R158	QRD181J-222	2.2kΩ	''	''
R159	QRD181J-821	820Ω	''	''
R160	QRD181J-272	2.7kΩ	''	''

Resistors

Item No.	Part Number	Rating		Description
R161	QRD181J-105	1MΩ	1/8W	Carbon
R162	QRD126J-181	180Ω	1/2W	Uninflammable Carbon
R163	QRD126J-101	100Ω	″	″
R164	QRD181J-102	1kΩ	1/8W	Carbon
R165	QRD181J-183	18kΩ	″	″
R166	QRD181J-394	390kΩ	″	″
R167	QRD181J-153	15kΩ	″	″
R168	QVP4AOB-472	4.7kΩ		Variable
R169	QRD181J-392	3.9kΩ	1/8W	Carbon
R170	QRD181J-103	10kΩ	″	″
R171	QRD181J-392	3.9kΩ	″	″
R172	QRD181J-392	″	″	″
R173	QRD181J-563	56kΩ	″	″
R174	QRD181J-563	″	″	″
R175	QRD181J-392	3.9kΩ	″	″
R176	QRD141J-221	220Ω	1/4W	″
R177	QRD181J-152	1.5kΩ	1/8W	″
R178	QRD181J-103	10kΩ	″	″
R179	QRD181J-103	″	″	″
R180	QRD181J-561	560Ω	″	″
R181	QRD181J-181	180Ω	″	″
R182	QRD181J-181	″	″	″
R184	QRD181J-331	330Ω	″	″
R185	QRD181J-272	2.7kΩ	″	″
R186	QRD181J-333	33kΩ	″	″
R187	QRD181J-273	27kΩ	″	″
R188	QRD181J-151	150Ω	″	″
R191	QRD181J-152	1.5kΩ	″	″
R192	QRD181J-224	220kΩ	″	″
R193	QRD181J-102	1kΩ	″	″
R194	QRD181J-563	56kΩ	″	″

Others

Item No.	Part Number	Rating	Description
	E03606-001		Male Contact Pin
	E49829-002		Shield Case
	E60091-002		Shield Plate
	E60092-001		Shield Plate
	QAA2245-001		Tuning Capacitor

10. Packing Materials

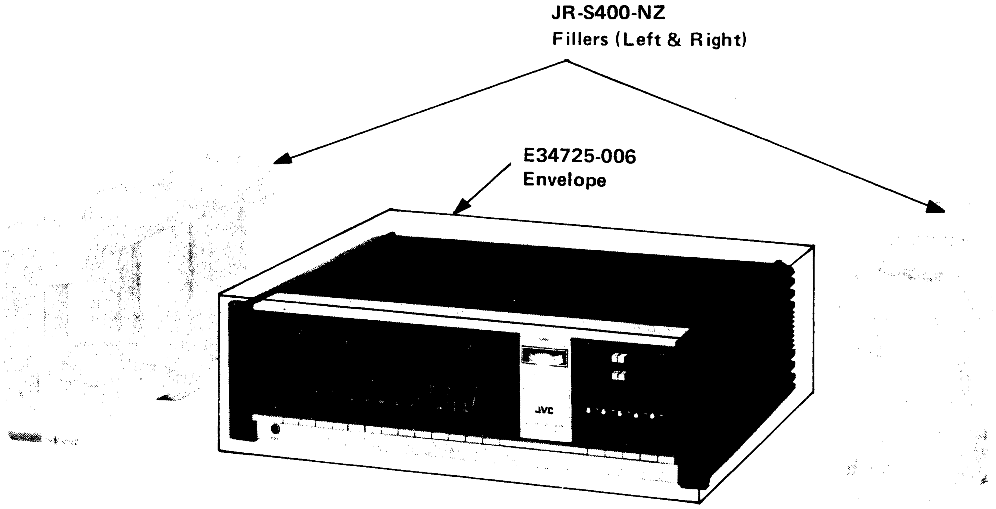

JR-S400-NZ
Fillers (Left & Right)
E34725-006
Envelope
JVC

Fig. 41

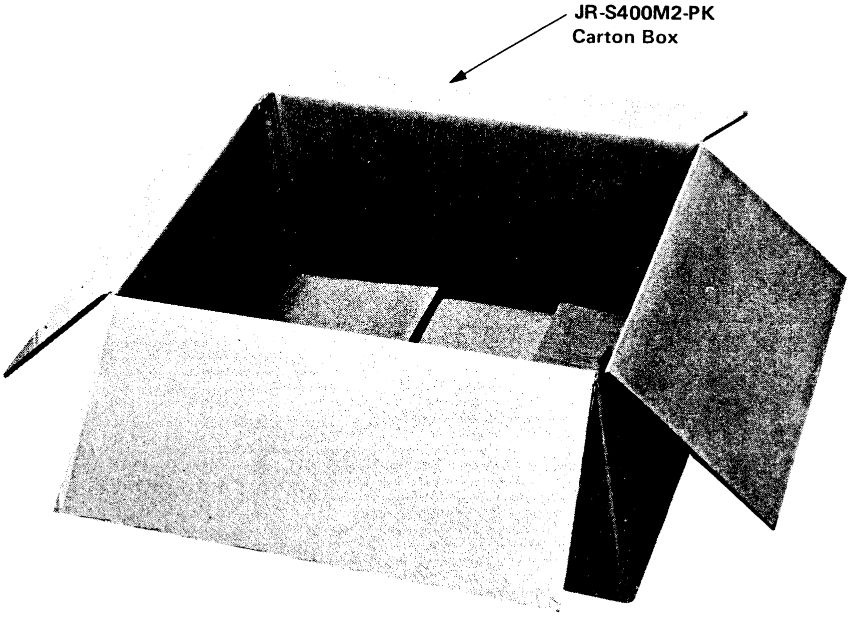
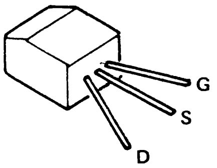

JR-S400M2-PK
Carton Box

Fig. 42

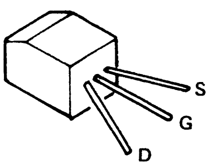
11. Accessories List

Item No.	Part Number	Description	Q'ty
1	See page 40.	Instruction Book	1
2	See page 40.	Warranty Card	1
3	E64207-002	Envelope for Instruction Book and Warranty Card	1
4	BT20024	"Do It Better" (for U.S.A. only)	1
5	BT20023	Service Procedures (for U.S.A. only)	1
6	See page 40.	6.0 A Fuse	1
7	See page 40.	3.3 A Fuse	1
8	E64216-002	Caution Tag (with Power Cord for Military Market only)	1
9	E64208-001	Envelope for Fuses	1 ea.
10	See page 40.	Fuse Label	1

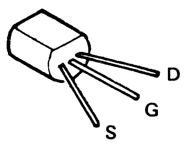
12. Transistor, I.C. and Diode Lead Identification



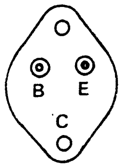
2SK55(D)



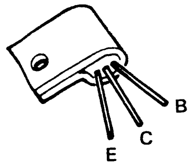
2SK40



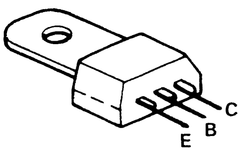
2SK30



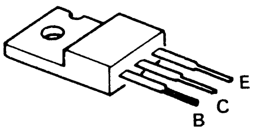
2SC898V
2SA753V



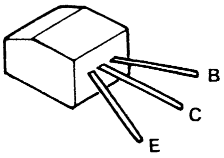
2SC853



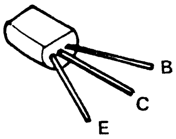
2SC1628(O,Y)
2SA828(O,Y)



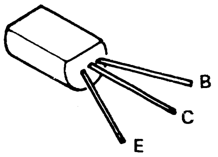
2SD381
2SB536
2SD313V
2SD330V



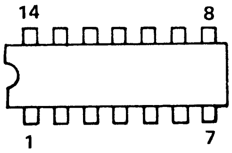
2SC458
2SC535
2SC1342



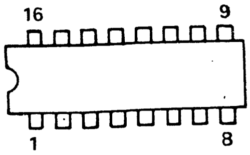
2SC1775AV(F)
2SA872AV (E)
2SD599(F)



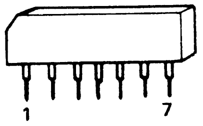
2SD438
2SB560



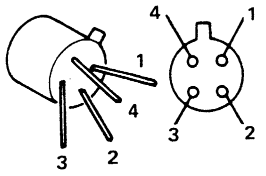
HA1156W



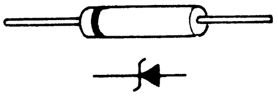
HA1197W
HA1137W



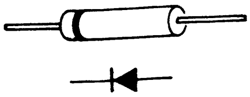
TA7122AP



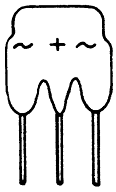
LA1221



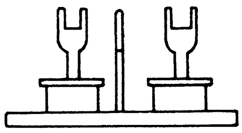
WZ130
WZ210
WZ070
WZ090



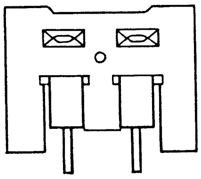
IS2473
IS188FM



ESAB02-02C
ESAB02-02N



SG5TR
(SG5TS)

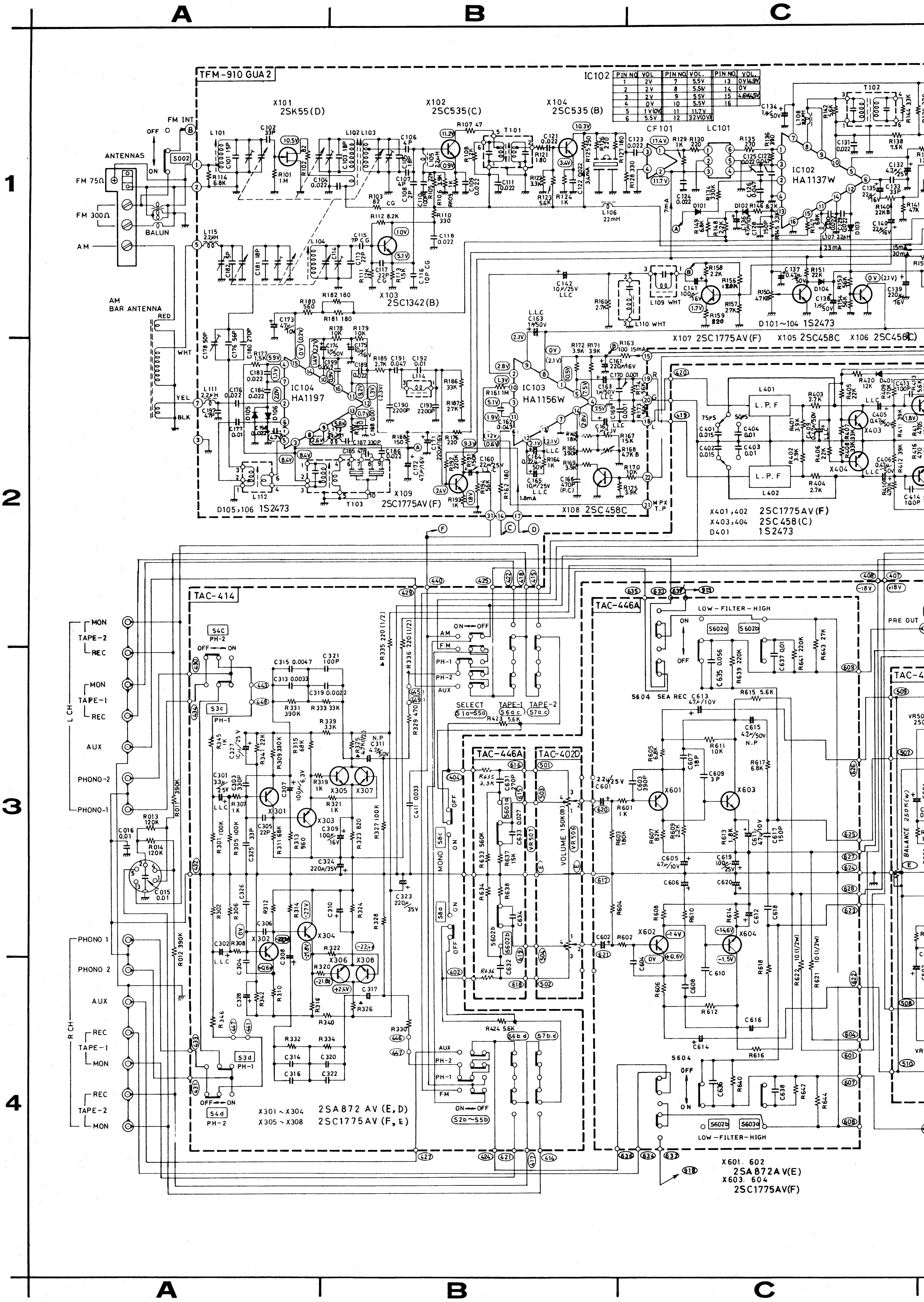


ESAD01-02C
ESAD01-02N

13. Parts List with Specified Numbers for Designated Areas

Page	Item No.	Description	U.S.A.	Canada	PACEX & Others	Finland	Europe	Australia	U.K.
7	28	Power Switch	QSU1135-001	QSU1135-001	QSU1135-001	QSU1135-001	QSP2111-012	QSP2111-012	QSP2111-012BS
8	10	Power Cord	QMP1200-244	QMP1200-244	QMP1200-244	E03329-001	QMP3800-244 E03544-001	E03551-002	QMP9020-003BS
8	9	Cord Stopper	QHS3876-162	QHS3876-162	QHS3876-162	QHS3876-162	QHS3876-162	QHS6374-252	QHS6374-252BS
6		Power Transformer	E03077-22,22C	E03077-22C	E03077-22B	E03077-22B	E03077-22B	E03077-22B	E03077-22BBS
		Fuse (Primary)	QMF61U1-5R0 (5.0A)	QMF60R1-5R0 (5.0A)	QMF60R1-6R0 (6.0A) QMF60R1-3R3 (3.3A)	QMF60R1-6R0 (6.0AT) QMF60R1-3R3 (3.3AT)	QMF51A2-3R15 (3.15AT)	QMF51A2-3R15 (3.15AT)	QMF51A2-3R15BS (3.15AT)
		(Secondary)	QHF61M2-8R0 (8.0A)	QMF60R1-8R0 (8.0A)	QMF60R1-8R0 (8.0A)	QMF60R1-8R0 (8.0AT)	QMF0003-100 (10AT)	QMF51A2-8R0 (8.0AT)	QMF51A2-8R0BS (8.0AT)
		(Secondary)	QMF61M2-8R0 (8.0A)	QMF60R1-1R0 (1.0A)	QMF60R1-1R0 (1.0A)	QMF60R1-1R0 (1.0AT)	QMF51A2-1R0 (1.0AT)	QMF51A2-1R0 (1.0AT)	QMF51A2-1R0BS (1.0AT)
15	9-(1)	AC P.C. Board	TPS-48A	TPS-48D	TPS-48B	TPS-48B	TPS-64	TPS-64	TPS-64BS
15	9-(2)	Fuse P.C. Board	TPS-49C	TPS-49C	TPS-49C	TPS-49C	TPS-49D	TPS-49F	TPS-49FBS
8	8	AC Outlet	QMC0437-001	QMC0437-001	QMC0437-001	QMC0437-001	–	–	–
		Voltage Select							
		(Plug)	–	–	E03676-001	E03676-001	–	–	–
		(Socket)	–	–	E03676-002	E03676-002	–	–	–
38		Instruction Book	E30580-578A	E30580-579A	E30580-578A (PACEX)	E30580-579A	E30580-579A	E30580-578A	E30580-578ABS
38		Warranty Card	BT20020C	BT20025	BT20014B	–	–	BT20029	BT20013B
38		Fuse			QMF60R1-6R0 (6.0A) QMF60R1-3R3 (3.3A)	QMF60R1-6R0 (6.0AT) QMF60R1-3R3 (3.3AT)			
38		Fuse Label	–	–	E7958-V	E7958-V	–	–	–
38		Do It Better	BT20024	–	–	–	–	–	–
38		Service Procedure	BT20023	–	–	–	–	–	–

14. JR-S400MARKII Schematic Diagram


A
B
C
1
2
3
4
TFM-910 GUA2
IC102
X101 2SK55(D)
X102 2SC535(C)
X104 2SC535(B)
X103 2SC1342(B)
IC102 HA1137W
IC104 HA1197
IC103 HA1156W
X109 2SC1775AV(F)
X108 2SC458C
X107 2SC1775AV(F)
X105 2SC458C
X106 2SC458C
D101~104 1S2473
D105,106 1S2473
ANTENNAS
FM 75Ω
FM 300Ω
AM
BALUN
AM BAR ANTENNA
FM INT
S002
X401,402 2SC1775AV(F)
X403,404 2SC458(C)
D401 1S2473
L.P.F
TAC-414
TAC-446A
TAC-402D
X301~X304 2SA872 AV (E,D)
X305~X308 2SC1775AV (F,E)
X601, 602 2SA872AV(E)
X603, 604 2SC1775AV(F)
LOW-FILTER-HIGH
VOLUME 150K(B)
SELECT
MONO
L CH
R CH
MON
TAPE-2
REC
TAPE-1
AUX
PHONO-2
PHONO-1
PHONO 1
PHONO 2
PRE OUT
BALANCE

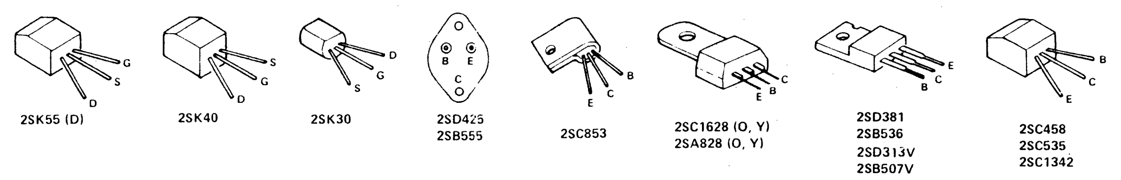
Printed Circuit Board Ass'y Locations

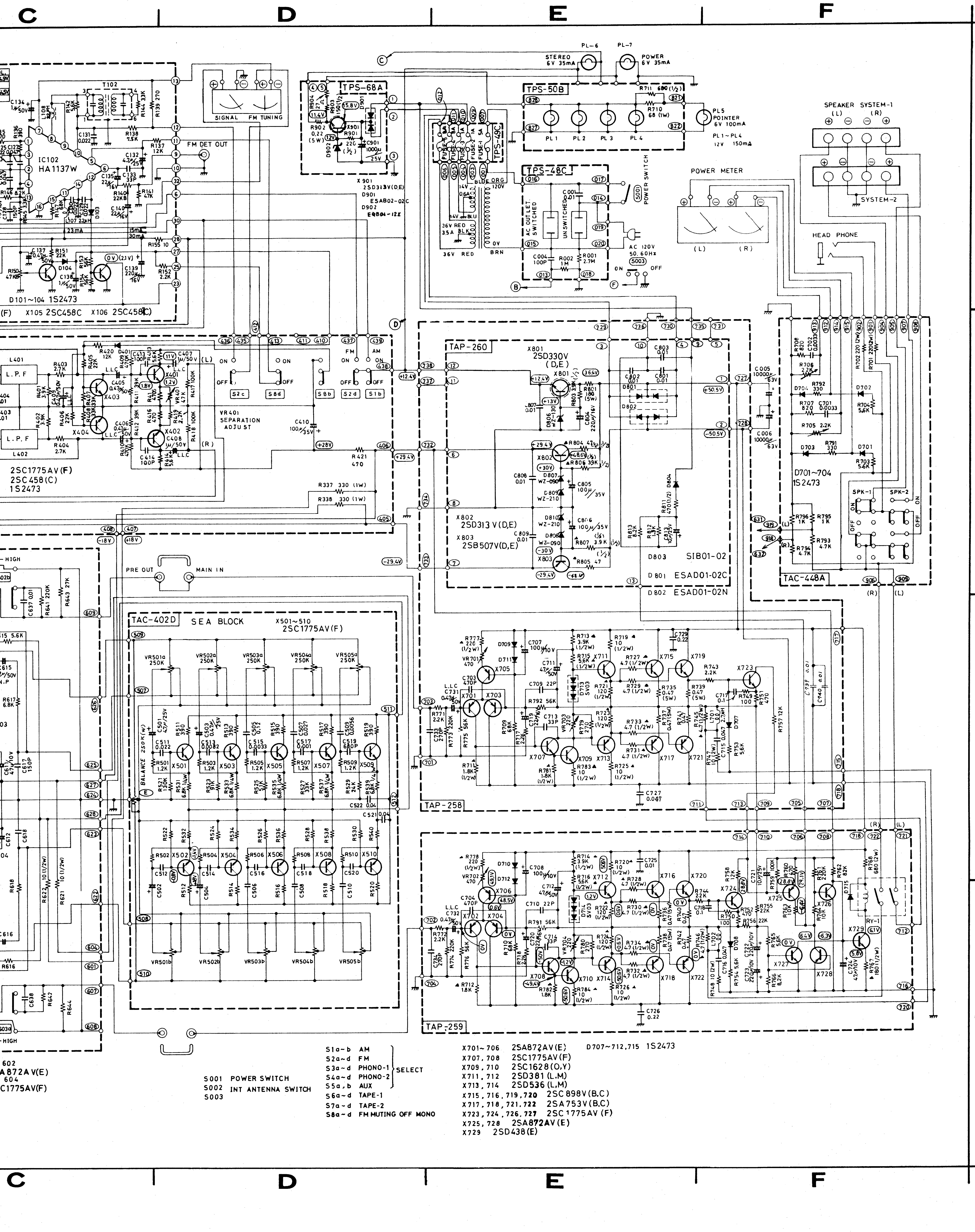
P.C. Board Ass'y	Description	Page
TPS-48	AC Block P.C. Board Ass'y	15
TPS-49C	Fuse P.C. Board Ass'y	15
TPS-50B	Meter Lamp P.C. Board Ass'y	16
TPS-68A	Stabilizer P.C. Board Ass'y	16
TAP-258	Power Amp. P.C. Board Ass'y	17
TAP-259	Power Amp. P.C. Board Ass'y	19
TAP-260	Power Supply P.C. Board Ass'y	22
TAC-402D	S.E.A. (Sound Effect Amp.) Control P.C. Board Ass'y	24
TAC-414	Selector P.C. Board Ass'y	26
TAC-446A	S.E.A. (Sound Effect Amp.) Amp. P.C. Board Ass'y	29
TAC-448A	Speaker P.C. Board Ass'y	31
TFM-910GUA2	FM/AM Tuner P.C. Board Ass'y	33

Precaution

After replacement of output and driver transistors, check the bias adjustment (see power amplifier adjustment on page 13).

Transistor, IC and Diode Lead Identification


G
S
D
2SK55 (D)
S
G
D
2SK40
D
G
S
2SK30
B
E
C
2SD425
2SB555
B
C
E
2SC853
C
B
E
2SC1628 (O, Y)
2SA828 (O, Y)
E
C
B
2SD381
2SB536
2SD313V
2SB507V
B
C
E
2SC458
2SC535
2SC1342

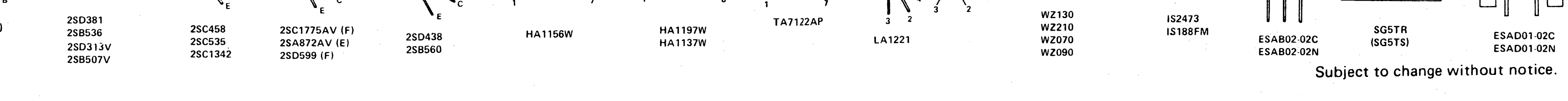

C
D
E
F
1
2
3
4
IC102
HA1137W
T102
SIGNAL
FM TUNING
FM DET OUT
D101~104 1S2473
X105 2SC458C X106 2SC458C
TPS-68A
X901 2SD313V(D,E)
D901 ESAB02-02C
D902 EQB01-12Z
STEREO 6V 35mA
PL-6
PL-7
POWER 6V 35mA
TPS-50B
PL1
PL2
PL3
PL4
PL5 POINTER 6V 100mA
PL1~PL4 12V 150mA
TPS-49C
TPS-48C
AC OUTLET SWITCHED
UNSWITCHED
S001 POWER SWITCH
AC 120V 50,60Hz
S003
ON
OFF
SPEAKER SYSTEM-1
(L)
(R)
SYSTEM-2
POWER METER
HEAD PHONE
L401
L402
L.P.F
VR401 SEPARATION ADJUST
2SC1775AV(F)
2SC458(C)
1S2473
TAP-260
X801 2SD330V (D,E)
X802 2SD313V(D,E)
X803 2SB507V(D,E)
D803 SIB01-02
D801 ESAD01-02C
D802 ESAD01-02N
TAC-448A
D701~704 1S2473
SPK-1
SPK-2
PRE OUT
MAIN IN
TAC-402D SEA BLOCK
X501~510 2SC1775AV(F)
BALANCE
TAP-258
TAP-259
RY-1

S001 POWER SWITCH
S002 INT ANTENNA SWITCH
S003

S1a~b AM
S2a~d FM
S3a~d PHONO-1
S4a~d PHONO-2
S5a,b AUX
SELECT
S6a~d TAPE-1
S7a~d TAPE-2
S8a~d FM MUTING OFF MONO

X701~706 2SA872AV(E)
X707,708 2SC1775AV(F)
X709,710 2SC1628(O,Y)
X711,712 2SD381(L,M)
X713,714 2SD536(L,M)
X715,716,719,720 2SC898V(B,C)
X717,718,721,722 2SA753V(B,C)
X723,724,726,727 2SC1775AV(F)
X725,728 2SA872AV(E)
X729 2SD438(E)

D707~712,715 1S2473

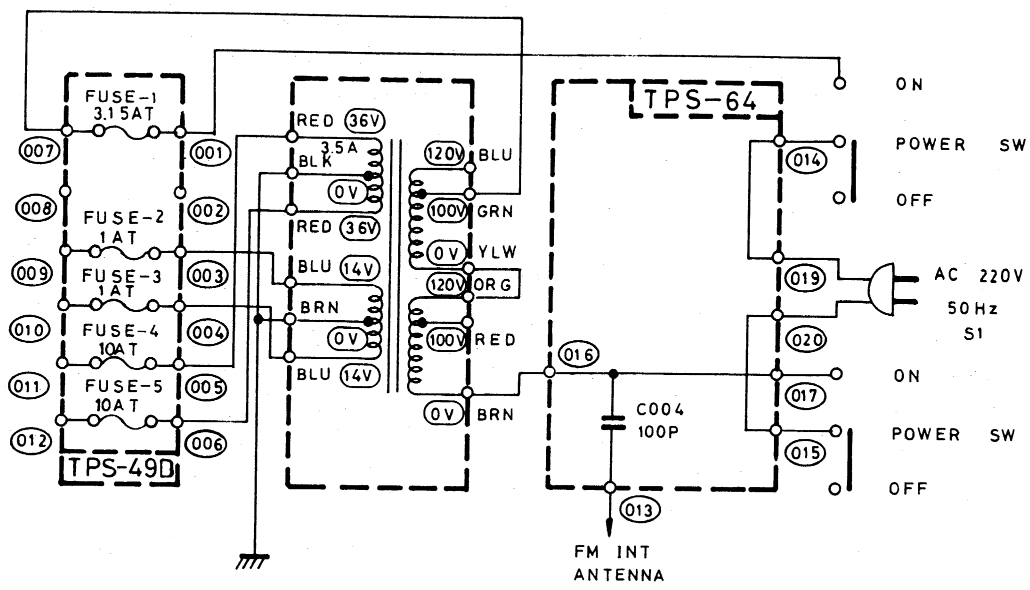

B
C
E
2SD381
2SB536
2SD313V
2SB507V
2SC458
2SC535
2SC1342
2SC1775AV (F)
2SA872AV (E)
2SD599 (F)
2SD438
2SB560
14
8
1
7
HA1156W
16
9
HA1197W
HA1137W
TA7122AP
LA1221
4
3
2
WZ130
WZ210
WZ070
WZ090
IS2473
IS188FM
ESAB02-02C
ESAB02-02N
SG5TR
(SG5TS)
ESAD01-02C
ESAD01-02N

Subject to change without notice.

JR-S400 MA
No. 2398

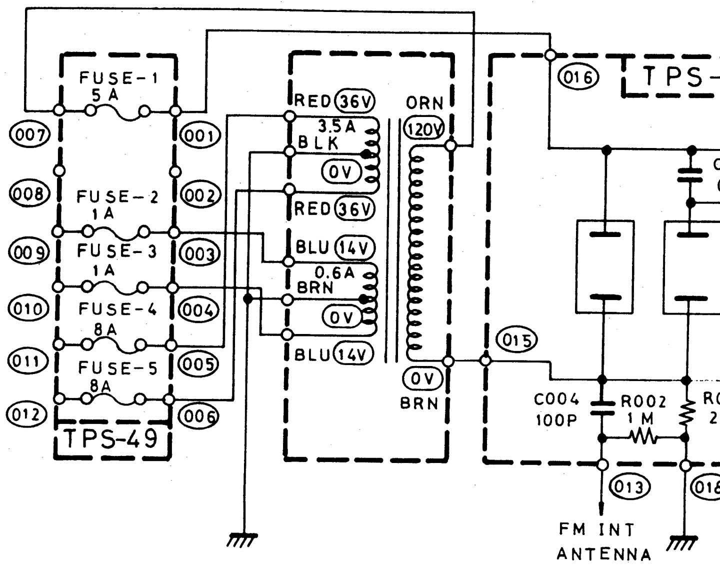
(E) FOR EUROPE (SEMKO, SEV) FM DE-EMPHASIS 50μSEC

AC POWER SUPPLY BLOCK


FUSE-1 3.15AT
FUSE-2 1AT
FUSE-3 1AT
FUSE-4 10AT
FUSE-5 10AT
TPS-49D
007
008
009
010
011
012
001
002
003
004
005
006
RED 36V
3.5A BLK
0V
RED 36V
BLU 14V
BRN
0V
BLU 14V
120V BLU
100V GRN
0V YLW
120V ORG
100V RED
0V BRN
TPS-64
016
C004 100P
013
FM INT ANTENNA
014
019
020
017
015
ON
POWER SW
OFF
AC 220V
50Hz
S1
ON
POWER SW
OFF

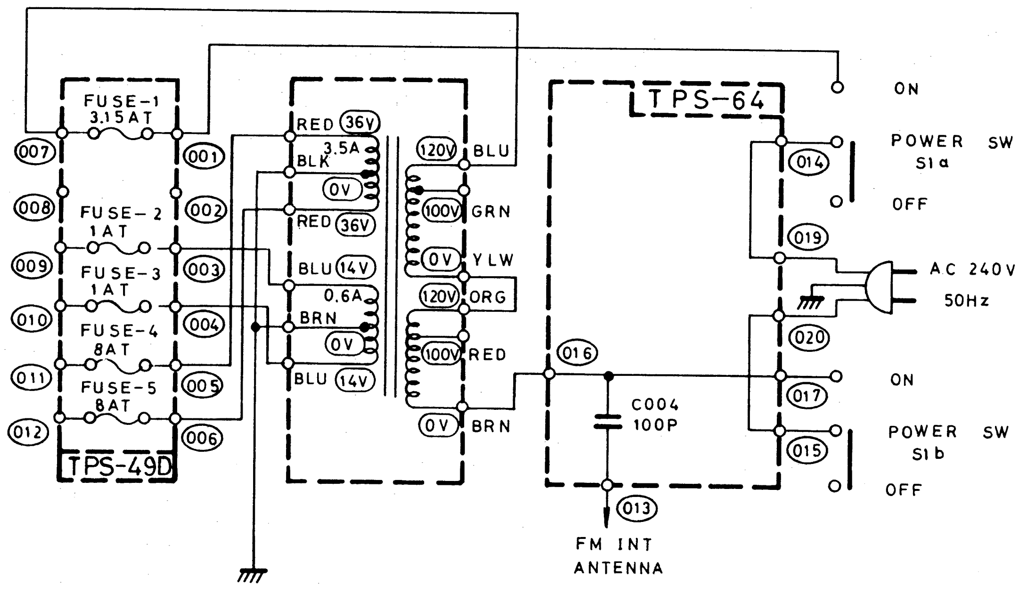
(J) FOR USA (UL)
(M) CANADA (CSA)
FM DE-EMPHASIS 75μSE

AC POWER SUPPLY BLOCK


FUSE-1 5A
FUSE-2 1A
FUSE-3 1A
FUSE-4 8A
FUSE-5 8A
TPS-49
007
008
009
010
011
012
001
002
003
004
005
006
RED 36V
3.5A BLK
0V
RED 36V
BLU 14V
0.6A BRN
0V
BLU 14V
ORN 120V
0V BRN
016
TPS-
015
C004 100P
R002 1M
013
FM INT ANTENNA

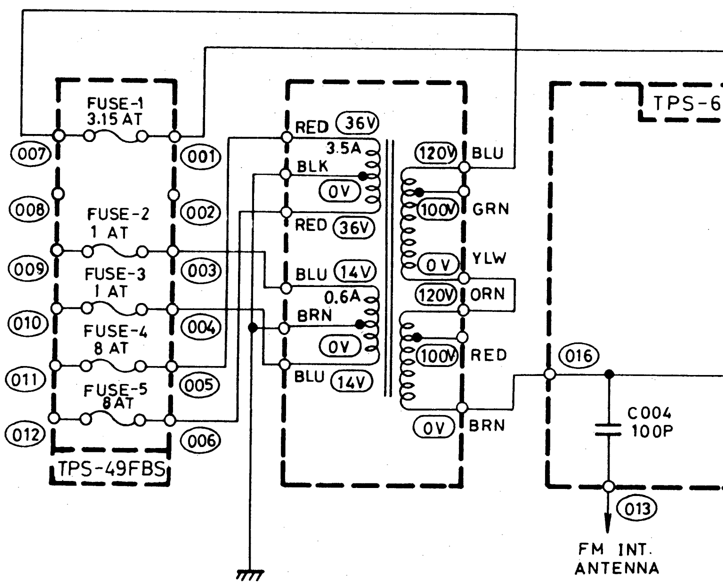
(A) FOR AUSTRALIA FM DE-EMPHASIS 50μSEC

AC POWER SUPPLY BLOCK


FUSE-1 3.15AT
FUSE-2 1AT
FUSE-3 1AT
FUSE-4 8AT
FUSE-5 8AT
TPS-49D
007
008
009
010
011
012
001
002
003
004
005
006
RED 36V
3.5A BLK
0V
RED 36V
BLU 14V
0.6A BRN
0V
BLU 14V
120V BLU
100V GRN
0V YLW
120V ORG
100V RED
0V BRN
TPS-64
016
C004 100P
013
FM INT ANTENNA
014
019
020
017
015
ON
POWER SW S1a
OFF
AC 240V
50Hz
ON
POWER SW S1b
OFF

(BS) FOR UK FM DE-EMPHASIS 50μSEC

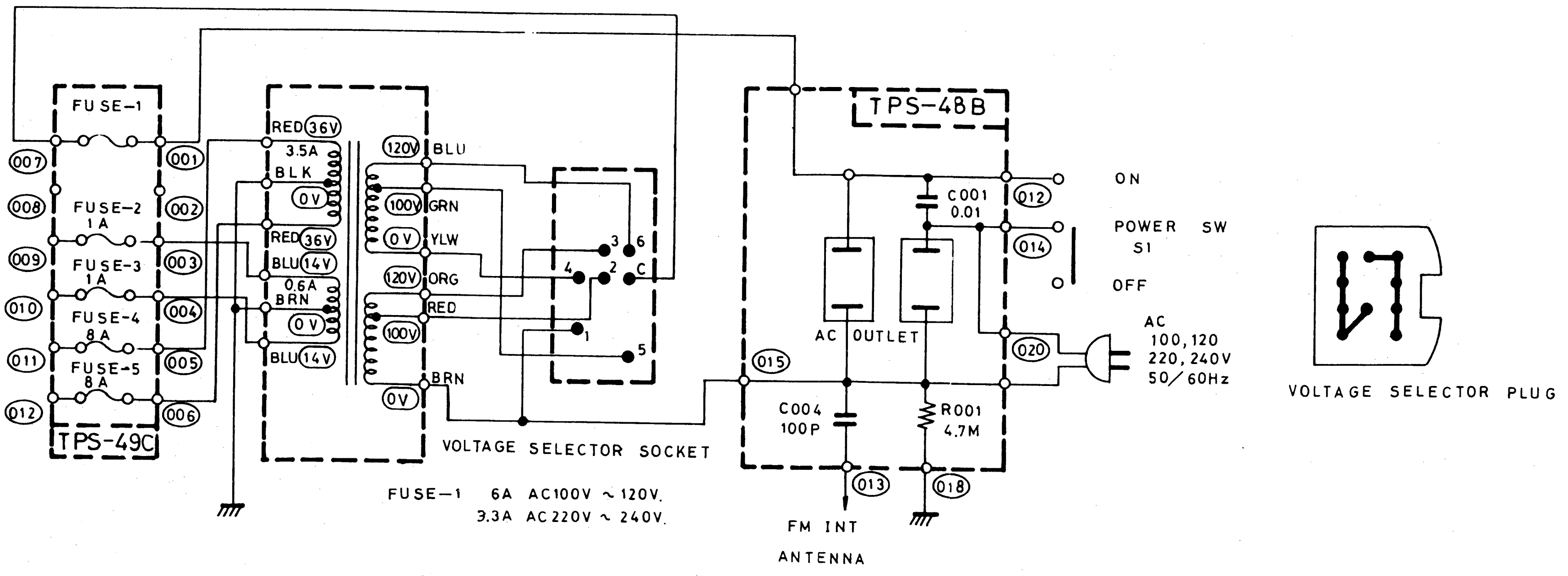
AC POWER SUPPLY BLOCK


FUSE-1 3.15AT
FUSE-2 1AT
FUSE-3 1AT
FUSE-4 8AT
FUSE-5 8AT
TPS-49FBS
007
008
009
010
011
012
001
002
003
004
005
006
RED 36V
3.5A BLK
0V
RED 36V
BLU 14V
0.6A BRN
0V
BLU 14V
120V BLU
100V GRN
0V YLW
120V ORN
100V RED
0V BRN
TPS-6
016
C004 100P
013
FM INT. ANTENNA

(U)(P)(F)

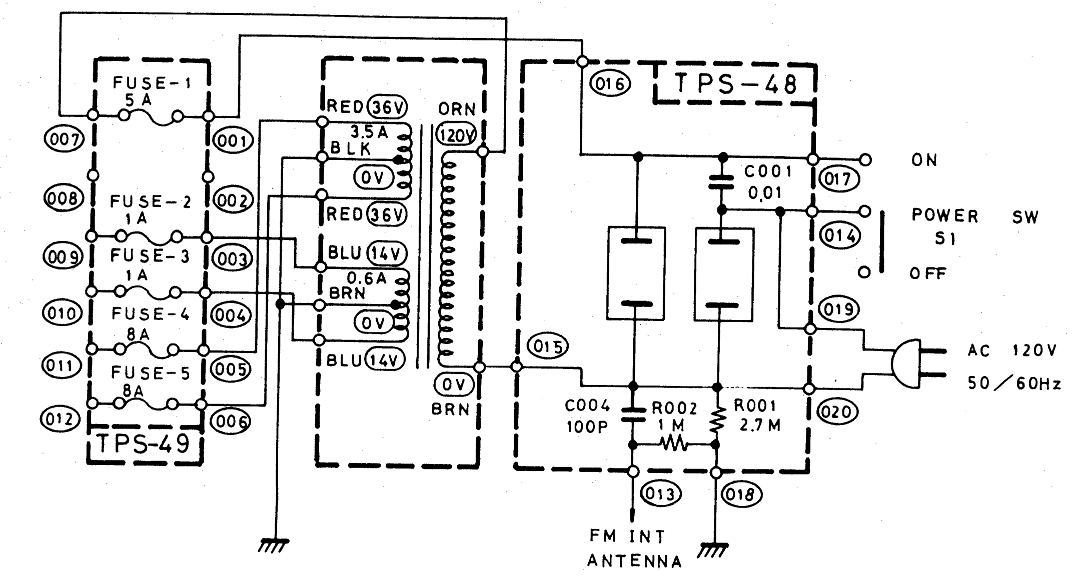
(U) FOR OTHER COUNTRIES FM DE-EMPHASIS 75μSEC
(P) FOR PACEX FM DE-EMPHASIS 75μSEC
(F) FOR EUROPE (EXCEPT SEMKO SEV) FM DE-EMPHASIS 50μSEC

AC POWER SUPPLY BLOCK


FUSE-1
FUSE-2 1A
FUSE-3 1A
FUSE-4 8A
FUSE-5 8A
TPS-49C
007
008
009
010
011
012
001
002
003
004
005
006
RED 36V
3.5A BLK
0V
RED 36V
BLU 14V
0.6A BRN
0V
BLU 14V
120V BLU
100V GRN
0V YLW
120V ORG
RED
100V
0V BRN
3
6
4
2
C
1
5
VOLTAGE SELECTOR SOCKET
FUSE-1 6A AC100V ~ 120V.
3.3A AC220V ~ 240V.
TPS-48B
C001 0.01
AC OUTLET
015
C004 100P
R001 4.7M
013
018
FM INT ANTENNA
012
014
020
ON
POWER SW S1
OFF
AC 100, 120 220, 240V 50/60Hz
VOLTAGE SELECTOR PLUG

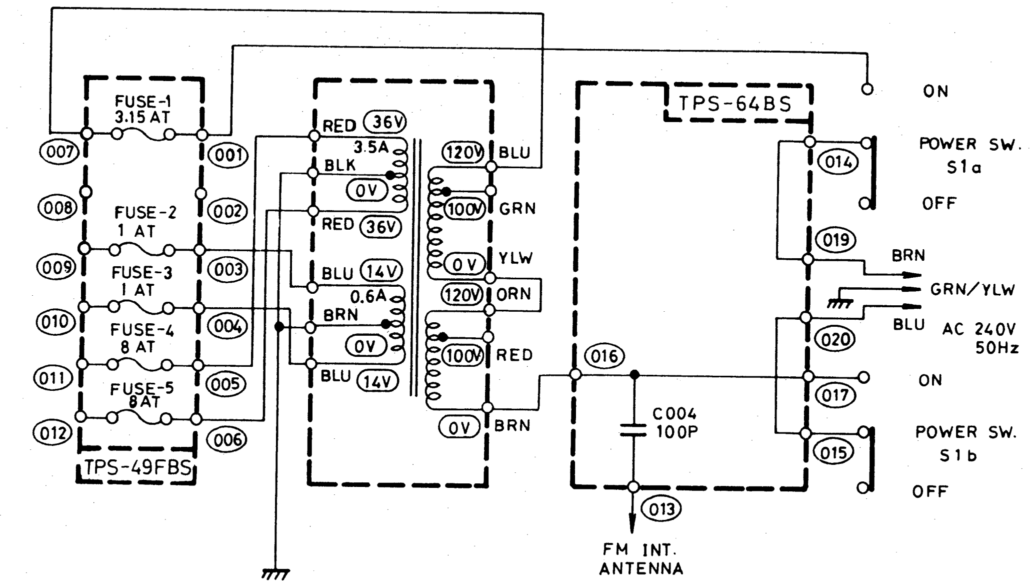
(J) FOR USA (UL)
(M) CANADA (CSA) } FM DE-EMPHASIS 75µSEC

AC POWER SUPPLY BLOCK

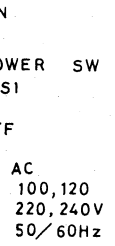

FUSE-1
5A
FUSE-2
1A
FUSE-3
1A
FUSE-4
8A
FUSE-5
8A
007
008
009
010
011
012
001
002
003
004
005
006
TPS-49
RED 36V
3.5A
BLK
0V
RED 36V
BLU 14V
0.6A
BRN
0V
BLU 14V
ORN
120V
0V
BRN
016
TPS-48
C001
0.01
017
ON
POWER SW
S1
014
OFF
019
015
AC 120V
50/60Hz
020
C004
100P
R002
1M
R001
2.7M
013
018
FM INT
ANTENNA

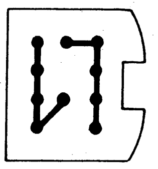
(BS) FOR UK FM DE-EMPHASIS 50µSEC

AC POWER SUPPLY BLOCK


FUSE-1
3.15 AT
FUSE-2
1 AT
FUSE-3
1 AT
FUSE-4
8 AT
FUSE-5
8AT
007
008
009
010
011
012
001
002
003
004
005
006
TPS-49FBS
RED 36V
3.5A
BLK
0V
RED 36V
BLU 14V
0.6A
BRN
0V
BLU 14V
120V
BLU
100V
GRN
0V
YLW
120V
ORN
100V
RED
0V
BRN
TPS-64BS
ON
POWER SW.
S1a
014
OFF
019
BRN
GRN/YLW
BLU
AC 240V
50Hz
020
016
ON
017
C004
100P
POWER SW.
S1b
015
OFF
013
FM INT.
ANTENNA

M DE-EMPHASIS 75µSEC
M DE-EMPHASIS 75µSEC
EMKO SEV) FM DE-EMPHASIS 50µSEC


N
OWER SW
S1
F
AC
100,120
220,240V
50/60Hz



VOLTAGE SELECTOR PLUG